



Please note change of address:
P.O. Box 1760
205 Main Street
Brattleboro, VT 05302
~~214 Main Street~~
~~Brattleboro, VT 05301~~

MAY 20 1993

(802) 254-3677 (24 hrs.)
(802) 254-7630 (FAX)

May 19, 1993

First Vermont Bank
Andrew Cay
Western Avenue
W. Brattleboro, VT 05301

RE: Phase II Environmental Site Investigation of Former Green Mountain Log Homes

Dear Mr. Cay:

Enclosed please find the above-referenced report for your review. Also enclosed you will find a form requiring your signature upon approval of this report. Please sign this form, keeping a copy for your files, and return it to us in the self addressed, stamped envelope provided for your convenience.

As soon as we receive this form, a copy of the above-referenced report will be mailed to the recipient listed.

Should you have any questions please call me at 254-3677.

Sincerely,
TRI-S, Inc. Environmental Consulting

Bruce Tease, Ph.D.

Enclosures

cc: Matt Germon

BET/dan

Branch Office:
25 Pinney Street, Ellington, CT 06029 (203) 875-2110 (24 hrs.)
Fax: (203) 875-8587 (24 hrs.)

1281.01\

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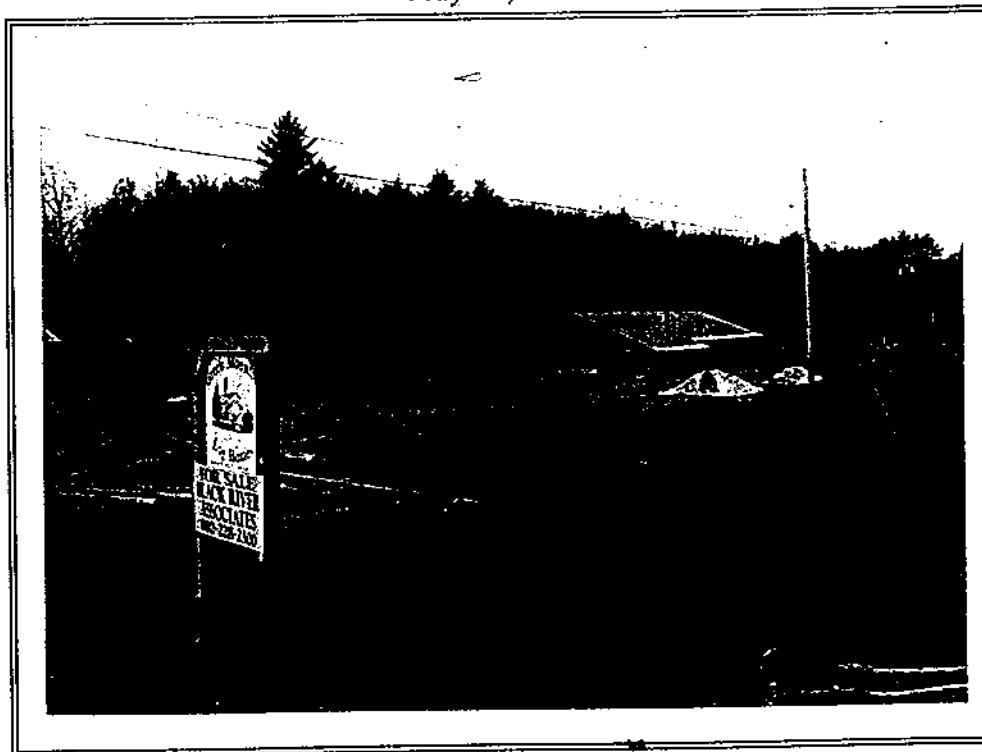
MAY 24 1993

Phase II Environmental Site Investigation

of

Former Green Mountain Log Homes Property
Route 11
Chester, Vermont

May 19, 1993



for

First Vermont Bank
Western Avenue
Brattleboro, VT 05301

by

TRI-S, Inc. Environmental Consulting
205 Main Street
Brattleboro, VT 05301

EXECUTIVE SUMMARY

A Phase II Environmental Site Investigation was conducted at the subject property by TRI-S, Inc. Environmental Consulting (TEC) following Work Plan approval by the Vermont Department of Environmental Conservation (VT DEC). A Phase I Site Assessment conducted in September of 1992 by TEC identified several areas of concern regarding the presence of oil and hazardous materials at the site. As of November 23, 1992 sampling, analysis, and removal of 55 gallon drums and various above ground and underground storage tanks have been performed.

Excavation of contaminated soils in several areas of the site and in particular surrounding a dip tank used in the log-preservation process, was completed as of March 24, 1993. Analysis of post excavation soil samples collected from the base of the dip-tank pit revealed the presence of 760 mg/Kg to 46,000 mg/Kg of Total Petroleum Hydrocarbons (TPH), 1,100 ug/Kg to 7,200 ug/Kg of Xylene, 480 ug/Kg of Ethylbenzene, and 180 ug/Kg of Toluene.

On March 30, 1993, four soil borings were advanced in the vicinity of the former dip tank and monitoring wells were emplaced into the bore holes. Analytical testing of groundwater and stream samples for Volatile Organic Compounds via USEPA Method 8240, TPH, and Acid Extractable Semi-volatile Organic Compounds via USEPA Method 8270 revealed the presence of low levels of TPH.

Also performed as part of this investigation was the sampling and analysis of the site drinking water well, stockpiled contaminated soil, and groundwater from monitoring well GMLH-2. Analytical results obtained from the above sampling shall be presented as an addendum to this Phase II investigation report.

A second dip tank is stored in the wood chip disposal area. The tank contained material similar to the contents of the excavated dip tank. While no surface soil contamination was observed surrounding the tank, soil samples collected at the base of the tank were composited and analyzed for Total Petroleum Hydrocarbons (TPH). The rainwater and petroleum related sediment shall be disposed of according to state and federal regulations.

Based on the previous removal of a 13,000 gallon UST, 55 gallon drums, above ground storage tanks, the removal of the former dip tank, and stained soils throughout the subject property, the potential for a release of oil and hazardous materials has been adequately reduced at the site. Site contamination at this time appears to be limited to petroleum related compounds mainly bound to site soils in the vicinity of the former dip tank.

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I. Introduction

As requested by First Vermont Bank, TRI-S, Inc. Environmental Consulting (TEC) of Brattleboro, VT conducted the following Phase II investigation at the former Green Mountain Log Homes property in Chester, Vermont, to address concerns raised by the Phase I Summary Report and to satisfy the requests presented by the Sites Management Section (SMS) of the Vermont Department of Environmental Conservation (VT DEC) in their letter dated December 28, 1993. Conclusions and recommendations generated in this report are based solely on information obtained during the Phase I Site Assessment and Phase II investigations.

II. Site Overview

A. Setting and Layout

The site is a 6.25 acre parcel located on the eastern side of Route 11 in Chester, Vermont (see Site Locus in Appendix A). The subject property is currently unoccupied. It includes four structures that were used by the former site owner, Green Mountain Log Homes, a manufacturer of softwood logs. Information on the site buildings is provided in the following table.

Site Building Description					
Structure	age	heating system	foundation	construction type	footprint area
Office Building	29	base board electric and wood stove	concrete block with crawl space	log with wood flooring	920 SF
Manufacturing Building	29	hot air fueled with wood	concrete slab	log with wood frame and concrete block	9,239 SF
Metal Storage Shed	unknown	none	concrete slab	steel frame with metal roof and wood walls	3,024 SF
Wood Storage Shed	unknown	none	none	wood frame and siding	1,320 SF

Softwood logs that were brought to the site were prepared in the manufacturing building and preserved by dipping into a holding tank containing creosote and hydraulic oil located in front of the office building. A wood chip disposal area is located in the northeastern section of the site. A former dip tank stored in this area contains rain water and a dark sediment.

Sites in the vicinity of the subject property are not serviced by the municipal drinking water and sewer systems. Drinking water is obtained at the subject property from an on-site groundwater well located easterly of the site buildings. An on-site septic tank and leach field was used to service the site's office building (see Site Sketch in Appendix B for details).

Abutting properties include a residence to the north, and undeveloped woodlands to the east, south, and west (across Route 11). A stream flows southwesterly along the western border of the subject property. This stream discharges to the Williams River located approximately 800 feet southwesterly of the site.

There are currently no known underground storage tanks present at the site. On November 23, 1992, a 13,000 gallon underground storage tank (UST) was removed from the site without incident by Brown's Country Services of East Dover, Vermont, under the direction of TEC. A pump dispenser located near this UST was also removed. Vermont DEC UST Program forms were completed and submitted to Marc Coleman of the Hazardous Materials Management Division on December 1, 1992.

B. Site History

The site has been unoccupied since it was repossessed by First Vermont Bank on January 25, 1992. Former site owners and land usage are listed below.

Former Site owners and Land usage			
Approximate Date	Site Name	Former Owners	Land Usage
1986 to 1992	Green Mountain Log Homes	Mary G. and Sean P. Schaeffner	manufacturing facility of softwood logs
unknown	Green Mountain Cabins, Inc.	Alan Wilder	manufacturing facility of softwood logs
unknown	unknown	Thompson Paper Co.	manufacturing facility of softwood logs
1965	unknown	unknown	potato farm

A Phase I Environmental Site Assessment was conducted at the subject property by TEC in September of 1992, to assess the potential for a release or threat of release of oil or hazardous materials at or in the vicinity of the site. Several areas were noted to exhibit surface stained soils, in particular the area surrounding the dipping tank located in front of the office building. Several 55 gallon drums and aboveground storage tanks, observed at the site, were sampled for waste classification. Laboratory results confirmed that the drum contents were primarily petroleum related in nature. As of November 23, 1992, sampling, analysis, and removal of the drums and various above ground and underground storage tanks have been performed.

On March 24, 1993, stained soils located in several areas of the site were excavated and stockpiled wrapped in polyethylene sheeting. The dip tank located in front of the office building and contaminated soils surrounding the tank were also excavated at this time. The size of the tank was approximately 6 feet x 12 feet. Soil contamination extended approximately 3-6 feet from the tank. The limit of excavation was approximately 9 feet below ground surface. Based on an excavation area of approximately 25 square yards, approximately 75 cubic yards of contaminated soils were removed and wrapped in polyethylene sheeting as two piles.

Head space screening of soil samples for volatile compounds with a Thermo Environmental Instrument, Inc. Organic Vapor Meter (OVM) Model 580B calibrated to 250 ppm of Isobutylene, detected readings of 350 ppm at approximately 3 feet below ground surface and approximately 75 ppm at the limit of excavation (9 feet). Groundwater entered the excavation pit preventing further removal of soils. Laboratory results of post excavation soil samples collected from the corners of the base of the dipping tank pit are presented in the following table.

Analytical Results of Dipping Tank-Pit Soil Samples Collected on March 24, 1993, at Green Mountain Log Homes, Chester, VT				
Compounds	Tank Pit Corners			
	Northeast	Northwest	Southeast	Southwest
TPH (IR)	760 ppm	5,500 ppm	46,000 ppm	19,000 ppm
VOC's (8240)				
Xylene	ND	ND	1,100 ppb	7,200 ppb
Ethylbenzene	ND	ND	ND	480 ppb
Toluene	ND	ND	ND	180 ppb
Acid Extractables (8270)	ND	ND	ND	ND
ND = Not Detected TPH = Total Petroleum Hydrocarbons by Fourier Transform Infrared Spectroscopy VOC's = Volatile Organic Compounds by USEPA Method 8240 Acid Extractables = Semi-volatile Phenols and Creosols by USEPA Method 8270 ppm = parts per million as mg/Kg ppb = parts per billion as ug/Kg				

C. Subsurface Investigations

On March 30, 1993, four soil borings were advanced in the vicinity of the former dip tank. Due to the abundance of cobbles and boulders at the site, an air rotary drill rig was utilized at the site. Consequently, split spoon soil sampling could not be performed.

Head space screening with an OVM of soil brought to the surface during drilling activities detected the presence of 20-50 ppm of volatile compounds at each soil boring. Monitoring wells (15 feet) were emplaced into the bore holes following standard well installation protocols for the State of Vermont.

Depth to groundwater and sampling of the monitoring wells were performed on April 8, 1993. Groundwater potentiometric readings are presented in the data summary table below. All readings are measured in feet from an arbitrary datum point. A groundwater potentiometric map for April 8, 1993, was developed from these readings to determine the direction of groundwater flow and is included as Appendix E. Soil Boring/Monitoring Well Logs are presented in Appendix C. Monitoring well gauging and sampling information are presented in Appendix D.

Groundwater Potentiometric Chart for Green Mountain Log Homes, Chester, VT				
Wells	GMLH 1	GMLH 2	GMLH 3	GMLH 4
Top of PVC	99.55	99.72	96.84	99.72
Depth to Groundwater	1.01	1.04	1.83	4.68
Groundwater Elevation on 4/8/93	94.54	94.68	95.01	95.04

Based on the elevational survey performed at the site, groundwater appears to flow in a west-northwesterly direction towards the small stream.

D. Sample Collection and Analysis

In addition to the groundwater monitoring well samples, two samples were collected from the stream located adjacent to Route 11. The sampling stations were located immediately upgradient of the access gate and downgradient of the wood shed area where the stream bends to the southeast. The stream samples were analyzed for Volatile Organic Compounds via USEPA Method 8240, TPH, and Acid Extractable Semi-Volatile Organic Compounds via USEPA Method 8270. Acid extractables include cresol related compounds.

Analytical results are presented in the following table.

Analytical Results of Groundwater and Sensitive Receptor Samples Collected on April 8, 1993 at Green Mountain Log Homes, Chester, VT							
Compound	Sample Location						
	GMLH1	GMLH2	GMLH3	GMLH4	Dup. of 4	up stream	down stream
Volatile Organics (8240)	ND	ND	ND	ND	ND	ND	ND
TPH (IR)	0.1 ppm	0.7 ppm	0.6 ppm	0.6 ppm	0.4 ppm	ND	0.1 ppm
Acid Extractables (625/8270)	ND	ND	ND	ND	ND	ND	ND
ND = Not Detected GMLH = groundwater monitoring well designation TPH = Total Petroleum Hydrocarbons (Fourier Transform Infrared Spectroscopy) Acid Extractables = Semi-volatile Phenols and Creosols by USEPA Method 8270 ppm = parts per million as mg/L ppb = parts per billion as ug/L Trip Blank sample was ND for VOC's, TPH, and Acid Extractables							

Analytical services were performed by Matrix Analytical Laboratories located in Hopkinton, Massachusetts. Full laboratory reports and Chain-of-Custody record are included in Appendix F.

An attempt was made to obtain a sample directly from the drinking water well but no sample could be collected. On May 17, 1993, following the return of power to the site, a sample from the drinking water well was collected for analysis of Volatile Organic Compounds via USEPA Method 524.2 and for Semi-Volatile Organic Compounds via USEPA Method 8270.

A groundwater sample was collected from monitoring well GMLH-2 and analyzed for Base/Neutral Extractable Semi-Volatile Organic Compounds via USEPA Method 8270.

A former dip tank is currently stored near the wood chip disposal area. This tank is approximately 6 feet x 12 feet in size and approximately 3 feet deep. It is approximately 1/5 full of mostly rain water with sediment exhibiting petroleum characteristics. No surface staining of soils was observed surrounding the tank. The surface soils at the base of the tank were rich in organic matter. A composite sample was collected and analyzed for TPH via USEPA Method 418.1. Since the contents of this tank were similar to that of the excavated dipping tank, the rain water and sediment mixture shall be disposed of in a similar fashion by a vac-truck at United Oil Recovery in Meriden, CT.

E. Risk Evaluation

The site exists within an undeveloped relatively rural area in Chester, Vermont. One residential dwelling is located upgradient approximately 400 feet northeasterly of the site. The subject area including the site is serviced by private drinking water wells and septic systems. A small stream that flows along the western property line is hydrologically connected to the Williams River located approximately 800 feet southwesterly of the subject property. The site well, small stream, and the Williams River would be considered potentially sensitive receptors.

The proximity of the site well (located easterly of the office building) to the area of observed contamination (primarily located westerly of the office building) is such that the integrity of the well should not be jeopardized by migrating contamination. Groundwater flow in unconsolidated soils in this area of the site appears to be in a west-northwesterly direction away from the site drinking water well.

Based on laboratory analyses conducted to date, the remaining contamination of concern at the site appears to be petroleum related high molecular weight compounds bound to soils in the vicinity of the former dipping tank in front of the office building. Laboratory analysis of groundwater and stream samples revealed low levels of TPH contamination. No other compounds analyzed for were detected in the groundwater and stream samples.

Based on the previous removal of a 13,000 gallon UST, 55 gallon drums, aboveground storage tanks, the removal of the former dip tank, and stained soils throughout the subject property, the potential for a release of oil and hazardous materials has been adequately reduced at the site.

III. Conclusions

TEC makes the following conclusions:

Based on the previous removal of a 13,000 gallon UST, 55 gallon drums, aboveground storage tanks, the removal of the former dip tank, and stained soils throughout the subject property, the potential for a release of oil and hazardous materials has been adequately reduced at the site. Site contamination at this time appears to be limited to petroleum related compounds bound to site soils in the vicinity of the former dip tank. Laboratory analysis of groundwater and stream samples revealed low levels of TPH contamination. No other compounds analyzed for were detected.

Analysis of soils and groundwater samples for acid extractable Semi-volatile Organic Compounds via USEPA Method 8270 revealed the absence of cresol containing compounds. The material used in the preservation of the softwood logs is petroleum related based on the presence of high levels of TPH detected to date. Analysis for neutral/base extractable Semi-volatile Organic Compounds via USEPA Method 8270 may identify more specifically the compounds associated with the petroleum based log preservative.

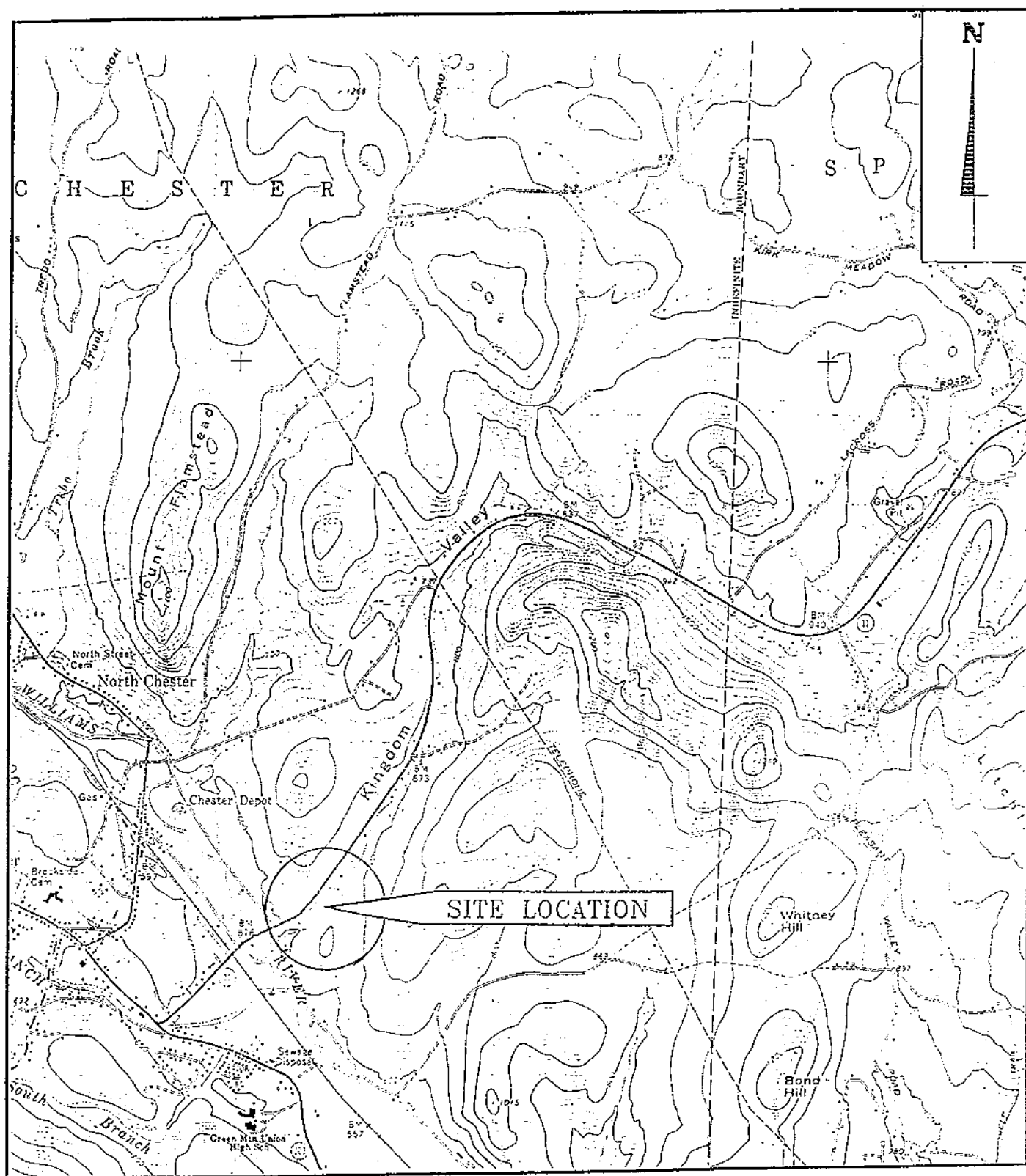
The presence of low levels of Total Petroleum Hydrocarbons (TPH) detected in the groundwater samples collected at the site would not constitute a significant threat to the integrity of the private drinking water wells at or in the vicinity of the subject property. Currently, there is no state or federal maximum contaminant level for TPH in drinking water.

The proximity of the site well (located easterly of the office building) to the area of observed contamination (primarily located westerly of the office building) is such that the integrity of the well should not be jeopardized by contamination originating from the former dip tank area. Groundwater flow in unconsolidated soils in this area of the site appears to be west-northwesterly, away from the site well.

IV. Recommendations

- Following waste classification, the stockpiled soils shall be disposed of according to state and federal regulations. Depending upon laboratory results, asphalt encapsulation of the non-cobble fraction of the stockpiled soils may be an appropriate disposal alternative. This material could be used as paving at the site.
- The contents of the dip tank, stored in the wood chip disposal area, should be removed via vac-truck and disposed of at United Oil Recovery in Meriden, CT.
- Results of analytical testing performed on samples collected on May 18, 1993, should be presented in a summary letter and submitted to the Vermont DEC.

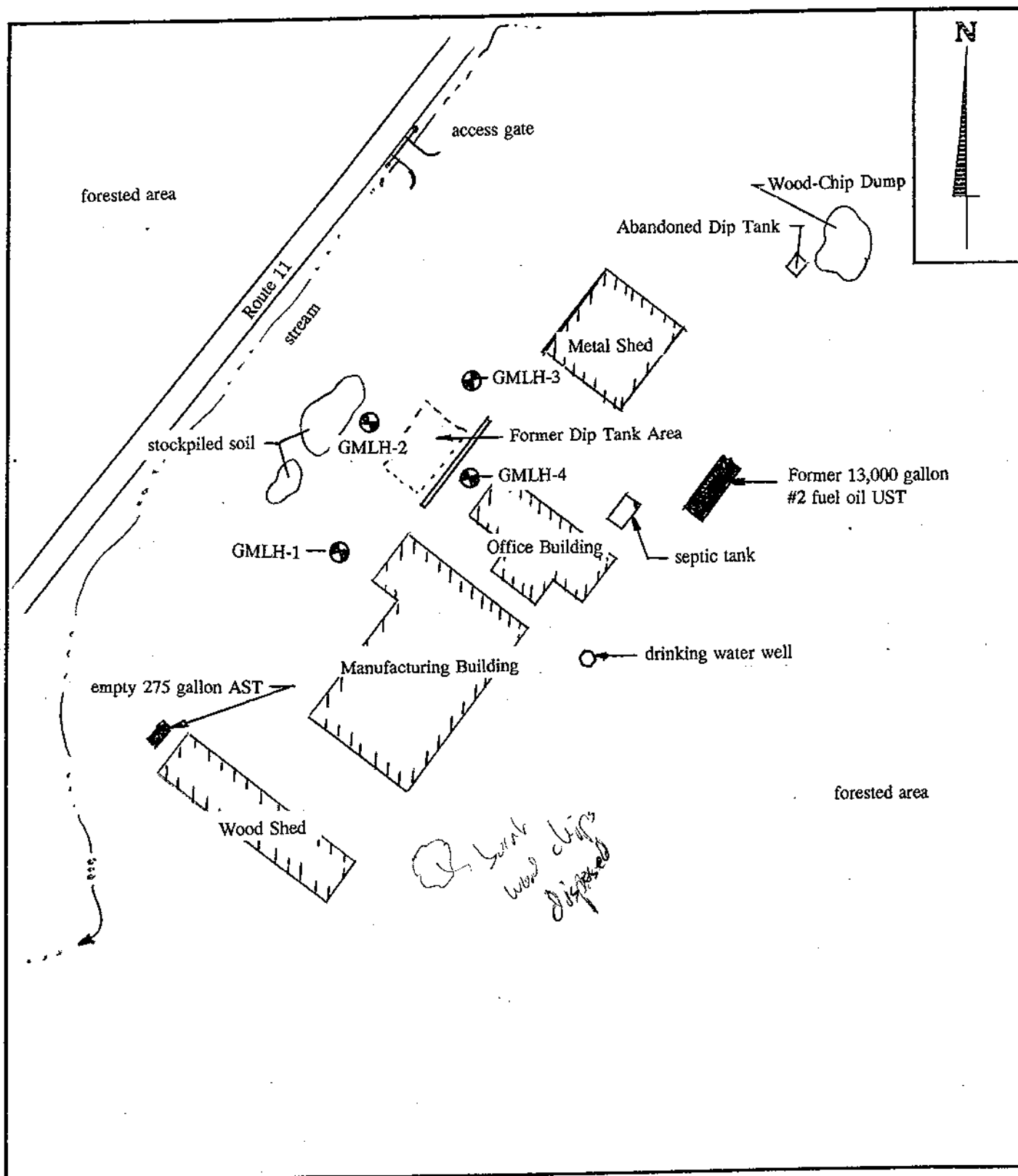
Appendix A
Site Locus Map



Site Locus	Green Mountain Log Homes Route 11 Chester, VT	Chester, VT Quadrangle 1:24,000
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Appendix B

Site Sketch Map



Site Sketch	Green Mountain Log Homes Route 11 Chester, VT	Not to Scale
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Appendix C

Monitoring Well Installation Logs

**TRI-S, INC. ENVIRONMENTAL CONSULTING
BORING/WELL LOG**

Project #: 281.01
 Project Name: Chester
 Location: Route 11 Green Mountain Log Homes
 Driller: Frost - Air Rotary
 TEC Personnel: Paul Miller
 Boring/well #: GMLH - 1 Sheet 1 of 1

SITE LOCUS

Depth Range	Blow Counts				Rec.	OVM (ppm)	Soil Character	GW
	4-6	6-12	12-18	18-24				
0 - 12'						20 - 50	Dark brown silt and cobbles and boulders with some fine - coarse grained sand.	~ 7'
12 - 15'						20 - 50	Dark brown - gray silt and sand with gravel.	
							EOB = 15'	

Soil Characterization Terminology

TEXTURE

clay
 silt
 very fine grain sand
 fine grain sand
 medium grain sand
 coarse grain sand
 gravel
 cobbles

PROPORTIONS

trace = 0-10%
 little = 10-20%
 some = 20-35%
 and = 35-50%

COLOR

brown (very light, light, medium, dark)
 yellow
 red
 gray

- Air rotary dill rig used due to cobbles and boulders at the site.
- No split spoon sampling possible.

**TRI-S, INC. ENVIRONMENTAL CONSULTING
BORING/WELL LOG**

Project #: 281.01
 Project Name: Chester
 Location: Route 11 Green Mountain Log Homes
 Driller: Frost
 TEC Personnel: Paul Miller
 Boring/well #: GMLH - 2 Sheet 1 of 1

SITE LOCUS

Depth Range	Blow Counts				Rec.	OVM (ppm)	Soil Character	GW
	0-5	6-12	13-18	19-24				
0 - 12'						20 - 50	Dark brown silt and cobbles and boulders with some fine - coarse grained sand.	
								~ 7'
12 - 15'						20 - 50	Dark brown - gray silt and sand with gravel.	
							EOB = 15'	

Soil Characterization Terminology

TEXTURE

clay
 silt
 very fine grain sand
 fine grain sand
 medium grain sand
 coarse grain sand
 gravel
 cobbles

PROPORTIONS

trace = 0-10%
 little = 10-20%
 some = 20-35%
 and = 35-50%

COLOR

brown (very light, light, medium, dark)
 yellow
 red
 gray

**TRI-S, INC. ENVIRONMENTAL CONSULTING
BORING/WELL LOG**

Project #: 281.01
 Project Name: Chester
 Location: Route 11 Green Mountain Log Homes
 Driller: Frost
 TEC Personnel: Paul Miller
 Boring/well #: GMLH - 3 Sheet 1 of 1

SITE LOCUS

Depth Range	Blow Counts				Rec.	OVM (ppm)	Soil Character	GW
	0-4	6-12	12-18	18-24				
0 - 12'						20 - 50	Dark brown silt and cobbles and boulders with some fine - coarse grained sand.	~ 7'
12 - 15'						20 - 50	Dark brown - gray silt and sand with gravel.	
							EOB = 15'	

Soil Characterization Terminology

TEXTURE

clay
 silt
 very fine grain sand
 fine grain sand
 medium grain sand
 coarse grain sand
 gravel
 cobbles

PROPORTIONS

trace = 0-10%
 little = 10-20%
 some = 20-35%
 and = 35-50%

COLOR

brown (very light, light, medium, dark)
 yellow
 red
 gray

**TRI-S, INC. ENVIRONMENTAL CONSULTING
BORING/WELL LOG**

Project #: 281.01
 Project Name: Chester
 Location: Route 11 Green Mountain Log Homes
 Driller: Frost - Air Rotary
 TEC Personnel: Paul Miller
 Boring/well #: GMLH - 4 Sheet 1 of 1

SITE LOCUS

Depth Range	Blow Counts				Rec.	OVM (ppm)	Soil Character	GW
	0-4	6-12	13-18	19-24				
0 - 12'						20 - 50	Dark brown silt and cobbles and boulders with some fine - coarse grained sand.	~ 8'
12 - 15'						20 - 50	Dark brown - gray silt and sand with light gravel.	
							EOB = 15'	

Soil Characterization Terminology

TEXTURE

clay
 silt
 very fine grain sand
 fine grain sand
 medium grain sand
 coarse grain sand
 gravel
 cobbles

PROPORTIONS

trace = 0-10%
 little = 10-20%
 some = 20-35%
 and = 35-50%

COLOR

brown (very light, light, medium, dark)
 yellow
 red
 gray

- Air rotary drill rig used due to cobbles and boulders at the site.
- No split spoon sampling possible.

Appendix D

Monitoring Well Gauging and Sampling Log

TEC MONITORING WELL GAUGING AND SAMPLING LOG

Project Number: 281.01

Site Name: Green Mountain Log Homes

Site Location: Route 11, Chester, VT

TEC Personnel: Paul Miller/Kirsten Jeppesen Date of Sampling: April 8, 1993

Well #	GMLH-1	GMLH-2	GMLH-3	GMLH-4		
Time of Sample Collection	11:38	11:56	11:47	11:26		
well depth	~ 15'	~ 15'	~ 15'	~ 15'		
groundwater depth	1.01	1.04	1.83	4.68		
casing (PVC) elevation	95.55'	95.72'	96.84'	99.72'		
water elevation	94.54	94.68	95.01	95.04		
water appearance	very turbid	very turbid	very turbid	very turbid		
water odor	heavy petro. odor	heavy petro. odor	heavy petro. odor	heavy petro. odor	low carbonation? page 6?	
total water in well (inches)	167.88"	167.52"	158.04"	123.84"		
bailers to evacuate (inches x)						

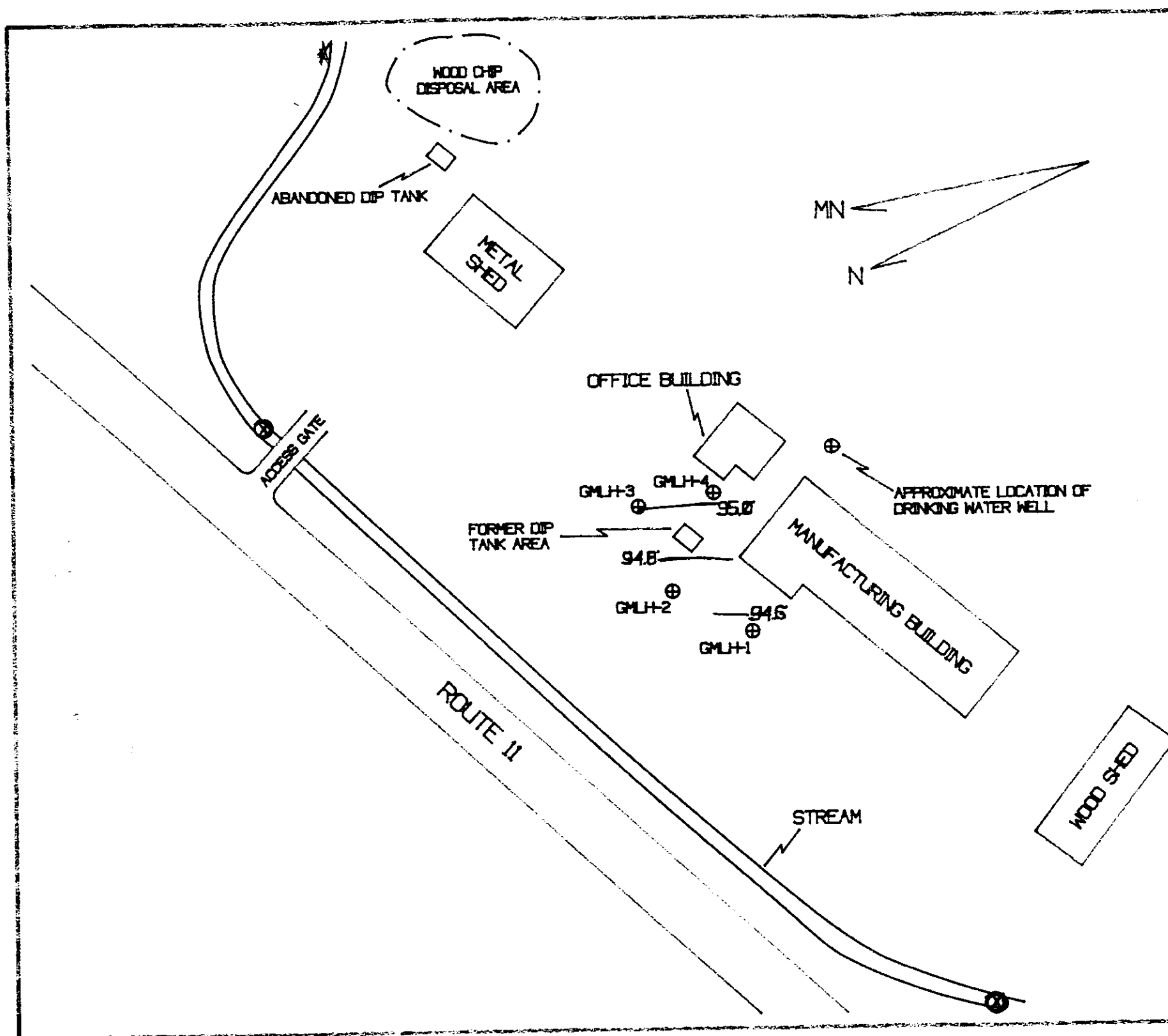
COMMENTS

Wells installed by Frost Drilling on March 30, 1993

Site Sketch:

Appendix E

Groundwater Potentiometric Map



GROUNDWATER POTENTIOMETRIC
MAP FOR 4/8/93

GREEN MOUNTAIN LOG HOMES
ROUTE 11
CHESTER, VERMONT

LEGEND

GMLH-3 ⊕ MONITORING WELL GMLH-3

—94.6 GROUNDWATER CONTOUR AT 94.6 FEET
(CONTOUR INTERVAL OF 0.2 FEET)

MONITORING WELL GROUNDWATER ELEVATIONS
(IN FEET)

GMLH-1	94.54	GMLH-3	95.01
GMLH-2	94.68	GMLH-4	95.04

- ⊗ UPSTREAM WATER SAMPLE LOCATION
⊙ DOWNSTREAM WATER SAMPLE LOCATION

0 60 120 180 FEET

PREPARED BY:
TRI-S, INC. ENVIRONMENTAL CONSULTING
P.O. BOX 1760, 205 MAIN STREET
BRATTLEBORO, VT 05302

Appendix F
Laboratory Data

MATRIX

RECEIVED APR 26 1993

ANALYTICAL DATA

SUMMARY

Report Date: 04/22/93

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302
802-254-3677

Project Manager:
Project Name: GMLH/Chester/PhaseII (281) (4-9-93)
Project No.: 281

Sample Information:

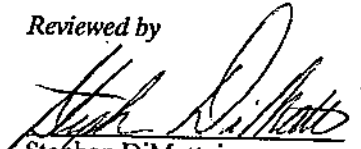
Laboratory ID. Client ID.

30992076-001 GMLH-1-4893-281
30992076-002 GMLH-2-4893-281
30992076-003 GMLH-3-4893-281
30992076-004 GMLH-4-4893-281
30992076-005 GMLH-5-4893-281

Laboratory ID. Client ID.

30992076-006 GMLH-6-4893-281
30992076-007 GMLH-8-4893-281
30992076-008 GMLH-9-4893-281
30992076-009 GMLH-10-4893-281
30992076-010 QC-Report

Reviewed by


Stephen DiMattei
Quality Assurance Officer

Lab Certifications

EPA ID: No. MA059
Massachusetts: No. 313
Maine: Reciprocity
New York: ELAP No. 11116

Connecticut: No. PH 0515
Florida: QA Plan No. 900437G
New Hampshire: No. 24190-A,B
Rhode Island: Reciprocity



Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748
1 800 3-MATRIX

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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-001
Client Id: GMLH-1-4893-281
Matrix: Water

Date Sampled: 04/08/93 11:38
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Acetone	ND	ug/l	100	8240	bs	04/17/93
Benzene	ND	ug/l	1	8240	bs	04/17/93
Bromodichloromethane	ND	ug/l	5	8240	bs	04/17/93
Bromoform	ND	ug/l	5	8240	bs	04/17/93
Bromomethane	ND	ug/l	5	8240	bs	04/17/93
Carbon Tetrachloride	ND	ug/l	5	8240	bs	04/17/93
Chlorobenzene	ND	ug/l	5	8240	bs	04/17/93
Chloroethane	ND	ug/l	5	8240	bs	04/17/93
Chloroform	ND	ug/l	5	8240	bs	04/17/93
Chloromethane	ND	ug/l	5	8240	bs	04/17/93
Dibromochloromethane	ND	ug/l	5	8240	bs	04/17/93
1,2-Dichlorobenzene	ND	ug/l	5	8240	bs	04/17/93
1,3-Dichlorobenzene	ND	ug/l	5	8240	bs	04/17/93
1,4-Dichlorobenzene	ND	ug/l	5	8240	bs	04/17/93
1,1-Dichloroethane	ND	ug/l	5	8240	bs	04/17/93
1,2-Dichloroethane	ND	ug/l	5	8240	bs	04/17/93
1,1-Dichloroethene	ND	ug/l	5	8240	bs	04/17/93
cis-1,2-Dichloroethene	ND	ug/l	5	8240	bs	04/17/93
trans-1,2-Dichloroethene	ND	ug/l	5	8240	bs	04/17/93
1,2-Dichloropropane	ND	ug/l	5	8240	bs	04/17/93
cis-1,3-Dichloropropene	ND	ug/l	5	8240	bs	04/17/93
trans-1,3-Dichloropropene	ND	ug/l	5	8240	bs	04/17/93
Ethylbenzene	ND	ug/l	5	8240	bs	04/17/93
Methylene Chloride	ND	ug/l	5	8240	bs	04/17/93
Methyl Ethyl Ketone	ND	ug/l	100	8240	bs	04/17/93



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F I N A L R E P O R T

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-001
Client Id: GMLH-1-4893-281
Matrix: Water

Date Sampled: 04/08/93 11:38
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<u>VOLATILE ORGANICS</u>						
MIBK	ND	ug/l	50	8240	bs	04/17/93
MTBE	ND	ug/l	5	8240	bs	04/17/93
1,1,2,2-Tetrachloroethane	ND	ug/l	5	8240	bs	04/17/93
Tetrachloroethene	ND	ug/l	5	8240	bs	04/17/93
Toluene	ND	ug/l	5	8240	bs	04/17/93
1,1,1-Trichloroethane	ND	ug/l	5	8240	bs	04/17/93
1,1,2-Trichloroethane	ND	ug/l	5	8240	bs	04/17/93
Trichloroethene	ND	ug/l	5	8240	bs	04/17/93
Trichlorofluoromethane	ND	ug/l	5	8240	bs	04/17/93
Vinyl Chloride	ND	ug/l	5	8240	bs	04/17/93
Xylene	ND	ug/l	5	8240	bs	04/17/93
<u>Surrogate Studies - Volatiles</u>						
Bromofluorobenzene	92	Percent			bs	04/17/93
1,2-Dichloroethane-D	104	Percent			bs	04/17/93
Toluene-D	96	Percent			bs	04/17/93
<u>ACID EXTRACTABLES</u>						
Benzoic Acid	ND	ug/l	50	625	ss	04/13/93
4-Chloro-3-Methylphenol	ND	ug/l	20	8270	ss	04/13/93
2-Chlorophenol	ND	ug/l	10	8270	ss	04/13/93
2,4-Dichlorophenol	ND	ug/l	10	8270	ss	04/13/93
2,6-Dichlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4-Dimethylphenol	ND	ug/l	10	8270	ss	04/13/93
4,6-Dinitro-2-Methylphenol	ND	ug/l	50	8270	ss	04/13/93



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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-001
Client Id: GMLH-1-4893-281
Matrix: Water

Date Sampled: 04/08/93 11:38
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
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ACID EXTRACTABLES

2,4-Dinitrophenol	ND	ug/l	50	8270	ss	04/13/93
2-Methylphenol	ND	ug/l	10	625	ss	04/13/93
4-Methylphenol	ND	ug/l	10	625	ss	04/13/93
2-Nitrophenol	ND	ug/l	10	8270	ss	04/13/93
4-Nitrophenol	ND	ug/l	50	8270	ss	04/13/93
Pentachlorophenol	ND	ug/l	50	8270	ss	04/13/93
Phenol	ND	ug/l	10	8270	ss	04/13/93
2,3,4,6-Tetrachlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4,5-Trichlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4,6-Trichlorophenol	ND	ug/l	10	8270	ss	04/13/93
Extraction Date:	04/12/93				rw	04/13/93

Surrogate Studies - Acid Extractables

2-Fluorophenol	40	Percent			ss	04/13/93
Phenol-D6	39	Percent			ss	04/13/93
2,4,6-Tribromophenol	74	Percent			ss	04/13/93

Petroleum Hydrocarbon Analysis

Total Petroleum Hydrocarbon (IR)	0.1	mg/l	0.1	418.1	ja	04/16/93
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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH (281) (3-26-93)
Project Number: 281
Project Manager:
Sampler Name: Tri-S Environmental Cons.

Sample Information

Lab ID: 30851835-004
Client Id: SW
Matrix: Soil

Date Sampled: 03/24/93 14:00
Date Received: 03/26/93 : 0
Date Reported: 04/07/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<u>VOLATILE ORGANICS</u>						
MIBK	ND	ug/kg	1000	8240	ck	04/02/93
MTBE	ND	ug/kg	100	8240	ck	04/02/93
1,1,2,2-Tetrachloroethane	ND	ug/kg	100	8240	ck	04/02/93
Tetrachloroethene	ND	ug/kg	100	8240	ck	04/02/93
Toluene	180	ug/kg	100	8240	ck	04/02/93
1,1,1-Trichloroethane	ND	ug/kg	100	8240	ck	04/02/93
1,1,2-Trichloroethane	ND	ug/kg	100	8240	ck	04/02/93
Trichloroethene	ND	ug/kg	100	8240	ck	04/02/93
Trichlorofluoromethane	ND	ug/kg	100	8240	ck	04/02/93
Vinyl Chloride	ND	ug/kg	100	8240	ck	04/02/93
Xylene	7,200	ug/kg	100	8240	ck	04/02/93
<u>HYDROCARBON ANALYSIS</u>						
Total Petroleum Hydrocarbon (IR)	19,000	mg/kg	200	9073	ja	03/29/93
<u>ACID EXTRACTABLES</u>						
Benzoic Acid	ND	ug/kg	50000	8270	ss	04/01/93
4-Chloro-3-Methylphenol	ND	ug/kg	20000	8270	ss	04/01/93
2-Chlorophenol	ND	ug/kg	10000	8270	ss	04/01/93
2,4-Dichlorophenol	ND	ug/kg	10000	8270	ss	04/01/93
2,6-Dichlorophenol	ND	ug/kg	10000	8270	ss	04/01/93
2,4-Dimethylphenol	ND	ug/kg	10000	8270	ss	04/01/93
4,6-Dinitro-2-Methylphenol	ND	ug/kg	50000	8270	ss	04/01/93
2,4-Dinitrophenol	ND	ug/kg	50000	8270	ss	04/01/93
2-Methylphenol	ND	ug/kg	10000	8270	ss	04/01/93



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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-002
Client Id: GMLH-2-4893-281
Matrix: Water

Date Sampled: 04/08/93 11:56
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Acetone	ND	ug/l	100	8240	bs	04/19/93
Benzene	ND	ug/l	1	8240	bs	04/19/93
Bromodichloromethane	ND	ug/l	5	8240	bs	04/19/93
Bromoform	ND	ug/l	5	8240	bs	04/19/93
Bromomethane	ND	ug/l	5	8240	bs	04/19/93
Carbon Tetrachloride	ND	ug/l	5	8240	bs	04/19/93
Chlorobenzene	ND	ug/l	5	8240	bs	04/19/93
Chloroethane	ND	ug/l	5	8240	bs	04/19/93
Chloroform	ND	ug/l	5	8240	bs	04/19/93
Chloromethane	ND	ug/l	5	8240	bs	04/19/93
Dibromochloromethane	ND	ug/l	5	8240	bs	04/19/93
1,2-Dichlorobenzene	ND	ug/l	5	8240	bs	04/19/93
1,3-Dichlorobenzene	ND	ug/l	5	8240	bs	04/19/93
1,4-Dichlorobenzene	ND	ug/l	5	8240	bs	04/19/93
1,1-Dichloroethane	ND	ug/l	5	8240	bs	04/19/93
1,2-Dichloroethane	ND	ug/l	5	8240	bs	04/19/93
1,1-Dichloroethene	ND	ug/l	5	8240	bs	04/19/93
cis-1,2-Dichloroethene	ND	ug/l	5	8240	bs	04/19/93
trans-1,2-Dichloroethene	ND	ug/l	5	8240	bs	04/19/93
1,2-Dichloropropane	ND	ug/l	5	8240	bs	04/19/93
cis-1,3-Dichloropropene	ND	ug/l	5	8240	bs	04/19/93
trans-1,3-Dichloropropene	ND	ug/l	5	8240	bs	04/19/93
Ethylbenzene	ND	ug/l	5	8240	bs	04/19/93
Methylene Chloride	ND	ug/l	5	8240	bs	04/19/93
Methyl Ethyl Ketone	ND	ug/l	100	8240	bs	04/19/93



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Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-002
Client Id: GMLH-2-4893-281
Matrix: Water

Date Sampled: 04/08/93 11:56
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
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VOLATILE ORGANICS

MIBK	ND	ug/l	50	8240	bs	04/19/93
MTBE	ND	ug/l	5	8240	bs	04/19/93
1,1,2,2-Tetrachloroethane	ND	ug/l	5	8240	bs	04/19/93
Tetrachloroethene	ND	ug/l	5	8240	bs	04/19/93
Toluene	ND	ug/l	5	8240	bs	04/19/93
1,1,1-Trichloroethane	ND	ug/l	5	8240	bs	04/19/93
1,1,2-Trichloroethane	ND	ug/l	5	8240	bs	04/19/93
Trichloroethene	ND	ug/l	5	8240	bs	04/19/93
Trichlorofluoromethane	ND	ug/l	5	8240	bs	04/19/93
Vinyl Chloride	ND	ug/l	5	8240	bs	04/19/93
Xylene	ND	ug/l	5	8240	bs	04/19/93

Surrogate Studies - Volatiles

Bromofluorobenzene	99	Percent			bs	04/19/93
1,2-Dichloroethane-D	95	Percent			bs	04/19/93
Toluene-D	98	Percent			bs	04/19/93

ACID EXTRACTABLES

Benzoic Acid	ND	ug/l	50	625	ss	04/13/93
4-Chloro-3-Methylphenol	ND	ug/l	20	8270	ss	04/13/93
2-Chlorophenol	ND	ug/l	10	8270	ss	04/13/93
2,4-Dichlorophenol	ND	ug/l	10	8270	ss	04/13/93
2,6-Dichlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4-Dimethylphenol	ND	ug/l	10	8270	ss	04/13/93
4,6-Dinitro-2-Methylphenol	ND	ug/l	50	8270	ss	04/13/93



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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-002
Client Id: GMLH-2-4893-281
Matrix: Water

Date Sampled: 04/08/93 11:56
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
ACID EXTRACTABLES						
2,4-Dinitrophenol	ND	ug/l	50	8270	ss	04/13/93
2-Methylphenol	ND	ug/l	10	625	ss	04/13/93
4-Methylphenol	ND	ug/l	10	625	ss	04/13/93
2-Nitrophenol	ND	ug/l	10	8270	ss	04/13/93
4-Nitrophenol	ND	ug/l	50	8270	ss	04/13/93
Pentachlorophenol	ND	ug/l	50	8270	ss	04/13/93
Phenol	ND	ug/l	10	8270	ss	04/13/93
2,3,4,6-Tetrachlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4,5-Trichlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4,6-Trichlorophenol	ND	ug/l	10	8270	ss	04/13/93
Extraction Date:	04/12/93				rw	04/13/93
Surrogate Studies - Acid Extractables						
2-Fluorophenol	49	Percent			ss	04/13/93
Phenol-D6	44	Percent			ss	04/13/93
2,4,6-Tribromophenol	93	Percent			ss	04/13/93
Petroleum Hydrocarbon Analysis						
Total Petroleum Hydrocarbon (IR)	0.7	mg/l	0.1	418.1	ja	04/16/93



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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-003
Client Id: GMLH-3-4893-281
Matrix: Water

Date Sampled: 04/08/93 11:47
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Acetone	ND	ug/l	100	8240	bs	04/17/93
Benzene	ND	ug/l	1	8240	bs	04/17/93
Bromodichloromethane	ND	ug/l	5	8240	bs	04/17/93
Bromoform	ND	ug/l	5	8240	bs	04/17/93
Bromomethane	ND	ug/l	5	8240	bs	04/17/93
Carbon Tetrachloride	ND	ug/l	5	8240	bs	04/17/93
Chlorobenzene	ND	ug/l	5	8240	bs	04/17/93
Chloroethane	ND	ug/l	5	8240	bs	04/17/93
Chloroform	ND	ug/l	5	8240	bs	04/17/93
Chloromethane	ND	ug/l	5	8240	bs	04/17/93
Dibromochloromethane	ND	ug/l	5	8240	bs	04/17/93
1,2-Dichlorobenzene	ND	ug/l	5	8240	bs	04/17/93
1,3-Dichlorobenzene	ND	ug/l	5	8240	bs	04/17/93
1,4-Dichlorobenzene	ND	ug/l	5	8240	bs	04/17/93
1,1-Dichloroethane	ND	ug/l	5	8240	bs	04/17/93
1,2-Dichloroethane	ND	ug/l	5	8240	bs	04/17/93
1,1-Dichloroethene	ND	ug/l	5	8240	bs	04/17/93
cis-1,2-Dichloroethene	ND	ug/l	5	8240	bs	04/17/93
trans-1,2-Dichloroethene	ND	ug/l	5	8240	bs	04/17/93
1,2-Dichloropropane	ND	ug/l	5	8240	bs	04/17/93
cis-1,3-Dichloropropene	ND	ug/l	5	8240	bs	04/17/93
trans-1,3-Dichloropropene	ND	ug/l	5	8240	bs	04/17/93
Ethylbenzene	ND	ug/l	5	8240	bs	04/17/93
Methylene Chloride	ND	ug/l	5	8240	bs	04/17/93
Methyl Ethyl Ketone	ND	ug/l	100	8240	bs	04/17/93



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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-003
Client Id: GMLH-3-4893-281
Matrix: Water

Date Sampled: 04/08/93 11:47
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No	Analyst	Date Analyzed
<u>VOLATILE ORGANICS</u>						
MIBK	ND	ug/l	50	8240	bs	04/17/93
MTBE	ND	ug/l	5	8240	bs	04/17/93
1,1,2,2-Tetrachloroethane	ND	ug/l	5	8240	bs	04/17/93
Tetrachloroethene	ND	ug/l	5	8240	bs	04/17/93
Toluene	ND	ug/l	5	8240	bs	04/17/93
1,1,1-Trichloroethane	ND	ug/l	5	8240	bs	04/17/93
1,1,2-Trichloroethane	ND	ug/l	5	8240	bs	04/17/93
Trichloroethene	ND	ug/l	5	8240	bs	04/17/93
Trichlorofluoromethane	ND	ug/l	5	8240	bs	04/17/93
Vinyl Chloride	ND	ug/l	5	8240	bs	04/17/93
Xylene	ND	ug/l	5	8240	bs	04/17/93
<u>Surrogate Studies - Volatiles</u>						
Bromofluorobenzene	95	Percent			bs	04/17/93
1,2-Dichloroethane-D	104	Percent			bs	04/17/93
Toluene-D	95	Percent			bs	04/17/93
<u>ACID EXTRACTABLES</u>						
Benzoic Acid	ND	ug/l	50	625	ss	04/13/93
4-Chloro-3-Methylphenol	ND	ug/l	20	8270	ss	04/13/93
2-Chlorophenol	ND	ug/l	10	8270	ss	04/13/93
2,4-Dichlorophenol	ND	ug/l	10	8270	ss	04/13/93
2,6-Dichlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4-Dimethylphenol	ND	ug/l	10	8270	ss	04/13/93
4,6-Dinitro-2-Methylphenol	ND	ug/l	50	8270	ss	04/13/93



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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-003
Client Id: GMLH-3-4893-281
Matrix: Water

Date Sampled: 04/08/93 11:47
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No	Analyst	Date Analyzed
ACID EXTRACTABLES						
2,4-Dinitrophenol	ND	ug/l	50	8270	ss	04/13/93
2-Methylphenol	ND	ug/l	10	625	ss	04/13/93
4-Methylphenol	ND	ug/l	10	625	ss	04/13/93
2-Nitrophenol	ND	ug/l	10	8270	ss	04/13/93
4-Nitrophenol	ND	ug/l	50	8270	ss	04/13/93
Pentachlorophenol	ND	ug/l	50	8270	ss	04/13/93
Phenol	ND	ug/l	10	625	ss	04/13/93
2,3,4,6-Tetrachlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4,5-Trichlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4,6-Trichlorophenol	ND	ug/l	10	8270	ss	04/13/93
Extraction Date:	04/12/93				rw	04/13/93
Surrogate Studies - Acid Extractables						
2-Fluorophenol	69	Percent			ss	04/13/93
Phenol-D6	61	Percent			ss	04/13/93
2,4,6-Tribromophenol	88	Percent			ss	04/13/93
Petroleum Hydrocarbon Analysis						
Total Petroleum Hydrocarbon (IR)	0.6	mg/l	0.1	418.1	ja	04/16/93



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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-004
Client Id: GMLH-4-4893-281
Matrix: Water

Date Sampled: 04/08/93 11:26
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Acetone	ND	ug/l	100	8240	bs	04/17/93
Benzene	ND	ug/l	1	8240	bs	04/17/93
Bromodichloromethane	ND	ug/l	5	8240	bs	04/17/93
Bromoform	ND	ug/l	5	8240	bs	04/17/93
Bromomethane	ND	ug/l	5	8240	bs	04/17/93
Carbon Tetrachloride	ND	ug/l	5	8240	bs	04/17/93
Chlorobenzene	ND	ug/l	5	8240	bs	04/17/93
Chloroethane	ND	ug/l	5	8240	bs	04/17/93
Chloroform	ND	ug/l	5	8240	bs	04/17/93
Chloromethane	ND	ug/l	5	8240	bs	04/17/93
Dibromochloromethane	ND	ug/l	5	8240	bs	04/17/93
1,2-Dichlorobenzene	ND	ug/l	5	8240	bs	04/17/93
1,3-Dichlorobenzene	ND	ug/l	5	8240	bs	04/17/93
1,4-Dichlorobenzene	ND	ug/l	5	8240	bs	04/17/93
1,1-Dichloroethane	ND	ug/l	5	8240	bs	04/17/93
1,2-Dichloroethane	ND	ug/l	5	8240	bs	04/17/93
1,1-Dichloroethene	ND	ug/l	5	8240	bs	04/17/93
cis-1,2-Dichloroethene	ND	ug/l	5	8240	bs	04/17/93
trans-1,2-Dichloroethene	ND	ug/l	5	8240	bs	04/17/93
1,2-Dichloropropane	ND	ug/l	5	8240	bs	04/17/93
cis-1,3-Dichloropropene	ND	ug/l	5	8240	bs	04/17/93
trans-1,3-Dichloropropene	ND	ug/l	5	8240	bs	04/17/93
Ethylbenzene	ND	ug/l	5	8240	bs	04/17/93
Methylene Chloride	ND	ug/l	5	8240	bs	04/17/93
Methyl Ethyl Ketone	ND	ug/l	100	8240	bs	04/17/93



Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748
1 800 3-MATRIX

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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-004
Client Id: GMLH-4-4893-281
Matrix: Water

Date Sampled: 04/08/93 11:26
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<u>VOLATILE ORGANICS</u>						
MIBK	ND	ug/l	50	8240	bs	04/17/93
MTBE	ND	ug/l	5	8240	bs	04/17/93
1,1,2,2-Tetrachloroethane	ND	ug/l	5	8240	bs	04/17/93
Tetrachloroethene	ND	ug/l	5	8240	bs	04/17/93
Toluene	ND	ug/l	5	8240	bs	04/17/93
1,1,1-Trichloroethane	ND	ug/l	5	8240	bs	04/17/93
1,1,2-Trichloroethane	ND	ug/l	5	8240	bs	04/17/93
Trichloroethene	ND	ug/l	5	8240	bs	04/17/93
Trichlorofluoromethane	ND	ug/l	5	8240	bs	04/17/93
Vinyl Chloride	ND	ug/l	5	8240	bs	04/17/93
Xylene	ND	ug/l	5	8240	bs	04/17/93
<u>Surrogate Studies - Volatiles</u>						
Bromofluorobenzene	88	Percent			bs	04/17/93
1,2-Dichloroethane-D	104	Percent			bs	04/17/93
Toluene-D	92	Percent			bs	04/17/93
<u>ACID EXTRACTABLES</u>						
Benzoic Acid	ND	ug/l	50	625	ss	04/13/93
4-Chloro-3-Methylphenol	ND	ug/l	20	8270	ss	04/13/93
2-Chlorophenol	ND	ug/l	10	8270	ss	04/13/93
2,4-Dichlorophenol	ND	ug/l	10	8270	ss	04/13/93
2,6-Dichlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4-Dimethylphenol	ND	ug/l	10	8270	ss	04/13/93
4,6-Dinitro-2-Methylphenol	ND	ug/l	50	8270	ss	04/13/93



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Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-004
Client Id: GMLH-4-4893-281
Matrix: Water

Date Sampled: 04/08/93 11:26
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
ACID EXTRACTABLES						
2,4-Dinitrophenol	ND	ug/l	50	8270	ss	04/13/93
2-Methylphenol	ND	ug/l	10	625	ss	04/13/93
4-Methylphenol	ND	ug/l	10	625	ss	04/13/93
2-Nitrophenol	ND	ug/l	10	8270	ss	04/13/93
4-Nitrophenol	ND	ug/l	50	8270	ss	04/13/93
Pentachlorophenol	ND	ug/l	50	8270	ss	04/13/93
Phenol	ND	ug/l	10	625	ss	04/13/93
2,3,4,6-Tetrachlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4,5-Trichlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4,6-Trichlorophenol	ND	ug/l	10	8270	ss	04/13/93
Extraction Date:	04/12/93				rw	04/13/93
Surrogate Studies - Acid Extractables						
2-Fluorophenol	54	Percent			ss	04/13/93
Phenol-D6	49	Percent			ss	04/13/93
2,4,6-Tribromophenol	73	Percent			ss	04/13/93
Petroleum Hydrocarbon Analysis						
Total Petroleum Hydrocarbon (IR)	0.6	mg/l	0.1	418.1	ja	04/16/93



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Client Information

Account: TRI-S Environmental Consulting
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Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sample Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-005
Client Id: GMLH-5-4893-281
Matrix: Water

Date Sampled: 04/08/93 13:48
Date Received: 04/09/93 :0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Acetone	ND	ug/l	100	8240	bs	04/17/93
Benzene	ND	ug/l	1	8240	bs	04/17/93
Bromodichloromethane	ND	ug/l	5	8240	bs	04/17/93
Bromoform	ND	ug/l	5	8240	bs	04/17/93
Bromomethane	ND	ug/l	5	8240	bs	04/17/93
Carbon Tetrachloride	ND	ug/l	5	8240	bs	04/17/93
Chlorobenzene	ND	ug/l	5	8240	bs	04/17/93
Chloroethane	ND	ug/l	5	8240	bs	04/17/93
Chloroform	ND	ug/l	5	8240	bs	04/17/93
Chloromethane	ND	ug/l	5	8240	bs	04/17/93
Dibromochloromethane	ND	ug/l	5	8240	bs	04/17/93
1,2-Dichlorobenzene	ND	ug/l	5	8240	bs	04/17/93
1,3-Dichlorobenzene	ND	ug/l	5	8240	bs	04/17/93
1,4-Dichlorobenzene	ND	ug/l	5	8240	bs	04/17/93
1,1-Dichloroethane	ND	ug/l	5	8240	bs	04/17/93
1,2-Dichloroethane	ND	ug/l	5	8240	bs	04/17/93
1,1-Dichloroethene	ND	ug/l	5	8240	bs	04/17/93
cis-1,2-Dichloroethene	ND	ug/l	5	8240	bs	04/17/93
trans-1,2-Dichloroethene	ND	ug/l	5	8240	bs	04/17/93
1,2-Dichloropropane	ND	ug/l	5	8240	bs	04/17/93
cis-1,3-Dichloropropene	ND	ug/l	5	8240	bs	04/17/93
trans-1,3-Dichloropropene	ND	ug/l	5	8240	bs	04/17/93
Ethylbenzene	ND	ug/l	5	8240	bs	04/17/93
Methylene Chloride	ND	ug/l	5	8240	bs	04/17/93
Methyl Ethyl Ketone	ND	ug/l	100	8240	bs	04/17/93



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Client Information

Account: TRI-S Environmental Consulting
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Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-005
Client Id: GMLH-5-4893-281
Matrix: Water

Date Sampled: 04/08/93 13:48
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
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VOLATILE ORGANICS

MIBK	ND	ug/l	50	8240	bs	04/17/93
MTBE	ND	ug/l	5	8240	bs	04/17/93
1,1,2,2-Tetrachloroethane	ND	ug/l	5	8240	bs	04/17/93
Tetrachloroethene	ND	ug/l	5	8240	bs	04/17/93
Toluene	ND	ug/l	5	8240	bs	04/17/93
1,1,1-Trichloroethane	ND	ug/l	5	8240	bs	04/17/93
1,1,2-Trichloroethane	ND	ug/l	5	8240	bs	04/17/93
Trichloroethene	ND	ug/l	5	8240	bs	04/17/93
Trichlorofluoromethane	ND	ug/l	5	8240	bs	04/17/93
Vinyl Chloride	ND	ug/l	5	8240	bs	04/17/93
Xylene	ND	ug/l	5	8240	bs	04/17/93

Surrogate Studies - Volatiles

Bromofluorobenzene	96	Percent			bs	04/17/93
1,2-Dichloroethane-D	109	Percent			bs	04/17/93
Toluene-D	99	Percent			bs	04/17/93

ACID EXTRACTABLES

Benzoic Acid	ND	ug/l	50	625	ss	04/13/93
4-Chloro-3-Methylphenol	ND	ug/l	20	8270	ss	04/13/93
2-Chlorophenol	ND	ug/l	10	8270	ss	04/13/93
2,4-Dichlorophenol	ND	ug/l	10	8270	ss	04/13/93
2,6-Dichlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4-Dimethylphenol	ND	ug/l	10	8270	ss	04/13/93
4,6-Dinitro-2-Methylphenol	ND	ug/l	50	8270	ss	04/13/93



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Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-005
Client Id: GMLH-5-4893-281
Matrix: Water

Date Sampled: 04/08/93 13:48
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
ACID EXTRACTABLES						
2,4-Dinitrophenol	ND	ug/l	50	8270	ss	04/13/93
2-Methylphenol	ND	ug/l	10	625	ss	04/13/93
4-Methylphenol	ND	ug/l	10	625	ss	04/13/93
2-Nitrophenol	ND	ug/l	10	8270	ss	04/13/93
4-Nitrophenol	ND	ug/l	50	8270	ss	04/13/93
Pentachlorophenol	ND	ug/l	50	8270	ss	04/13/93
Phenol	ND	ug/l	10	8270	ss	04/13/93
2,3,4,6-Tetrachlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4,5-Trichlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4,6-Trichlorophenol	ND	ug/l	10	8270	ss	04/13/93
Extraction Date:	04/12/93				rw	04/13/93
Surrogate Studies - Acid Extractables						
2-Fluorophenol	62	Percent			ss	04/13/93
Phenol-D6	55	Percent			ss	04/13/93
2,4,6-Tribromophenol	79	Percent			ss	04/13/93
Petroleum Hydrocarbon Analysis						
Total Petroleum Hydrocarbon (IR)	ND	mg/l	0.1	418.1	ja	04/16/93



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Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-006
Client Id: GMLH-6-4893-281
Matrix: Water

Date Sampled: 04/08/93 13:54
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Acetone	ND	ug/l	100	8240	bs	04/17/93
Benzene	ND	ug/l	1	8240	bs	04/17/93
Bromodichloromethane	ND	ug/l	5	8240	bs	04/17/93
Bromoform	ND	ug/l	5	8240	bs	04/17/93
Bromomethane	ND	ug/l	5	8240	bs	04/17/93
Carbon Tetrachloride	ND	ug/l	5	8240	bs	04/17/93
Chlorobenzene	ND	ug/l	5	8240	bs	04/17/93
Chloroethane	ND	ug/l	5	8240	bs	04/17/93
Chloroform	ND	ug/l	5	8240	bs	04/17/93
Chloromethane	ND	ug/l	5	8240	bs	04/17/93
Dibromochloromethane	ND	ug/l	5	8240	bs	04/17/93
1,2-Dichlorobenzene	ND	ug/l	5	8240	bs	04/17/93
1,3-Dichlorobenzene	ND	ug/l	5	8240	bs	04/17/93
1,4-Dichlorobenzene	ND	ug/l	5	8240	bs	04/17/93
1,1-Dichloroethane	ND	ug/l	5	8240	bs	04/17/93
1,2-Dichloroethane	ND	ug/l	5	8240	bs	04/17/93
1,1-Dichloroethene	ND	ug/l	5	8240	bs	04/17/93
cis-1,2-Dichloroethene	ND	ug/l	5	8240	bs	04/17/93
trans-1,2-Dichloroethene	ND	ug/l	5	8240	bs	04/17/93
1,2-Dichloropropane	ND	ug/l	5	8240	bs	04/17/93
cis-1,3-Dichloropropene	ND	ug/l	5	8240	bs	04/17/93
trans-1,3-Dichloropropene	ND	ug/l	5	8240	bs	04/17/93
Ethylbenzene	ND	ug/l	5	8240	bs	04/17/93
Methylene Chloride	ND	ug/l	5	8240	bs	04/17/93
Methyl Ethyl Ketone	ND	ug/l	100	8240	bs	04/17/93



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Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-006
Client Id: GMLH-6-4893-281
Matrix: Water

Date Sampled: 04/08/93 13:54
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<u>VOLATILE ORGANICS</u>						
MIBK	ND	ug/l	50	8240	bs	04/17/93
MTBE	ND	ug/l	5	8240	bs	04/17/93
1,1,2,2-Tetrachloroethane	ND	ug/l	5	8240	bs	04/17/93
Tetrachloroethene	ND	ug/l	5	8240	bs	04/17/93
Toluene	ND	ug/l	5	8240	bs	04/17/93
1,1,1-Trichloroethane	ND	ug/l	5	8240	bs	04/17/93
1,1,2-Trichloroethane	ND	ug/l	5	8240	bs	04/17/93
Trichloroethene	ND	ug/l	5	8240	bs	04/17/93
Trichlorofluoromethane	ND	ug/l	5	8240	bs	04/17/93
Vinyl Chloride	ND	ug/l	5	8240	bs	04/17/93
Xylene	ND	ug/l	5	8240	bs	04/17/93
<u>Surrogate Studies - Volatiles</u>						
Bromofluorobenzene	94	Percent			bs	04/17/93
1,2-Dichloroethane-D	101	Percent			bs	04/17/93
Toluene-D	94	Percent			bs	04/17/93
<u>ACID EXTRACTABLES</u>						
Benzoic Acid	ND	ug/l	50	625	ss	04/13/93
4-Chloro-3-Methylphenol	ND	ug/l	20	8270	ss	04/13/93
2-Chlorophenol	ND	ug/l	10	8270	ss	04/13/93
2,4-Dichlorophenol	ND	ug/l	10	8270	ss	04/13/93
2,6-Dichlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4-Dimethylphenol	ND	ug/l	10	8270	ss	04/13/93
4,6-Dinitro-2-Methylphenol	ND	ug/l	50	8270	ss	04/13/93



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Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-006
Client Id: GMLH-6-4893-281
Matrix: Water

Date Sampled: 04/08/93 13:54
Date Received: 04/09/93 :0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
ACID EXTRACTABLES						
2,4-Dinitrophenol	ND	ug/l	50	8270	ss	04/13/93
2-Methylphenol	ND	ug/l	10	625	ss	04/13/93
4-Methylphenol	ND	ug/l	10	625	ss	04/13/93
2-Nitrophenol	ND	ug/l	10	8270	ss	04/13/93
4-Nitrophenol	ND	ug/l	50	8270	ss	04/13/93
Pentachlorophenol	ND	ug/l	50	8270	ss	04/13/93
Phenol	ND	ug/l	10	625	ss	04/13/93
2,3,4,6-Tetrachlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4,5-Trichlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4,6-Trichlorophenol	ND	ug/l	10	8270	ss	04/13/93
Extraction Date:	04/12/93				ss	04/13/93
					rw	04/13/93
Surrogate Studies - Acid Extractables						
2-Fluorophenol	68	Percent				
Phenol-D6	54	Percent			ss	04/13/93
2,4,6-Tribromophenol	71	Percent			ss	04/13/93
					ss	04/13/93
Petroleum Hydrocarbon Analysis						
Total Petroleum Hydrocarbon (IR)	0.1	mg/l	0.1	418.1	ja	04/16/93



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Client Information

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Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-007
Client Id: GMLH-8-4893-281
Matrix: Water

Date Sampled: 04/08/93 11:28
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No	Analyst	Date Analyzed
VOLATILE ORGANICS						
Acetone	ND	ug/l	100	8240	bs	04/17/93
Benzene	ND	ug/l	1	8240	bs	04/17/93
Bromodichloromethane	ND	ug/l	5	8240	bs	04/17/93
Bromoform	ND	ug/l	5	8240	bs	04/17/93
Bromomethane	ND	ug/l	5	8240	bs	04/17/93
Carbon Tetrachloride	ND	ug/l	5	8240	bs	04/17/93
Chlorobenzene	ND	ug/l	5	8240	bs	04/17/93
Chloroethane	ND	ug/l	5	8240	bs	04/17/93
Chloroform	ND	ug/l	5	8240	bs	04/17/93
Chloromethane	ND	ug/l	5	8240	bs	04/17/93
Dibromochloromethane	ND	ug/l	5	8240	bs	04/17/93
1,2-Dichlorobenzene	ND	ug/l	5	8240	bs	04/17/93
1,3-Dichlorobenzene	ND	ug/l	5	8240	bs	04/17/93
1,4-Dichlorobenzene	ND	ug/l	5	8240	bs	04/17/93
1,1-Dichloroethane	ND	ug/l	5	8240	bs	04/17/93
1,2-Dichloroethane	ND	ug/l	5	8240	bs	04/17/93
1,1-Dichloroethene	ND	ug/l	5	8240	bs	04/17/93
cis-1,2-Dichloroethene	ND	ug/l	5	8240	bs	04/17/93
trans-1,2-Dichloroethene	ND	ug/l	5	8240	bs	04/17/93
1,2-Dichloropropane	ND	ug/l	5	8240	bs	04/17/93
cis-1,3-Dichloropropene	ND	ug/l	5	8240	bs	04/17/93
trans-1,3-Dichloropropene	ND	ug/l	5	8240	bs	04/17/93
Ethylbenzene	ND	ug/l	5	8240	bs	04/17/93
Methylene Chloride	ND	ug/l	5	8240	bs	04/17/93
Methyl Ethyl Ketone	ND	ug/l	100	8240	bs	04/17/93



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Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-007
Client Id: GMLH-8-4893-281
Matrix: Water

Date Sampled: 04/08/93 11:28
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
MIBK	ND	ug/l	50	8240	bs	04/17/93
MTBE	ND	ug/l	5	8240	bs	04/17/93
1,1,2,2-Tetrachloroethane	ND	ug/l	5	8240	bs	04/17/93
Tetrachloroethene	ND	ug/l	5	8240	bs	04/17/93
Toluene	ND	ug/l	5	8240	bs	04/17/93
1,1,1-Trichloroethane	ND	ug/l	5	8240	bs	04/17/93
1,1,2-Trichloroethane	ND	ug/l	5	8240	bs	04/17/93
Trichloroethene	ND	ug/l	5	8240	bs	04/17/93
Trichlorofluoromethane	ND	ug/l	5	8240	bs	04/17/93
Vinyl Chloride	ND	ug/l	5	8240	bs	04/17/93
Xylene	ND	ug/l	5	8240	bs	04/17/93
Surrogate Studies - Volatiles						
Bromofluorobenzene	92	Percent			bs	04/17/93
1,2-Dichloroethane-D	104	Percent			bs	04/17/93
Toluene-D	95	Percent			bs	04/17/93
ACID EXTRACTABLES						
Benzoic Acid	ND	ug/l	50	625	ss	04/13/93
4-Chloro-3-Methylphenol	ND	ug/l	20	8270	ss	04/13/93
2-Chlorophenol	ND	ug/l	10	8270	ss	04/13/93
2,4-Dichlorophenol	ND	ug/l	10	8270	ss	04/13/93
2,6-Dichlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4-Dimethylphenol	ND	ug/l	10	8270	ss	04/13/93
4,6-Dinitro-2-Methylphenol	ND	ug/l	50	8270	ss	04/13/93



Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748
1 800 3-MATRIX

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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-007
Client Id: GMLH-8-4893-281
Matrix: Water

Date Sampled: 04/08/93 11:28
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
ACID EXTRACTABLES						
2,4-Dinitrophenol	ND	ug/l	50	8270	ss	04/13/93
2-Methylphenol	ND	ug/l	10	625	ss	04/13/93
4-Methylphenol	ND	ug/l	10	625	ss	04/13/93
2-Nitrophenol	ND	ug/l	10	8270	ss	04/13/93
4-Nitrophenol	ND	ug/l	50	8270	ss	04/13/93
Pentachlorophenol	ND	ug/l	50	8270	ss	04/13/93
Phenol	ND	ug/l	10	8270	ss	04/13/93
2,3,4,6-Tetrachlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4,5-Trichlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4,6-Trichlorophenol	ND	ug/l	10	8270	ss	04/13/93
Extraction Date:	04/12/93				rw	04/13/93
Surrogate Studies - Acid Extractables						
2-Fluorophenol	82	Percent			ss	04/13/93
Phenol-D6	71	Percent			ss	04/13/93
2,4,6-Tribromophenol	75	Percent			ss	04/13/93
Petroleum Hydrocarbon Analysis						
Total Petroleum Hydrocarbon (IR)	0.4	mg/l	0.1	418.1	ja	04/19/93



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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-008
Client Id: GMLH-9-4893-281
Matrix: Water

Date Sampled: 04/08/93 12:03
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<u>VOLATILE ORGANICS</u>						
Acetone	ND	ug/l	100	8240	bs	04/17/93
Benzene	ND	ug/l	1	8240	bs	04/17/93
Bromodichloromethane	ND	ug/l	5	8240	bs	04/17/93
Bromoform	ND	ug/l	5	8240	bs	04/17/93
Bromomethane	ND	ug/l	5	8240	bs	04/17/93
Carbon Tetrachloride	ND	ug/l	5	8240	bs	04/17/93
Chlorobenzene	ND	ug/l	5	8240	bs	04/17/93
Chloroethane	ND	ug/l	5	8240	bs	04/17/93
Chloroform	ND	ug/l	5	8240	bs	04/17/93
Chloromethane	ND	ug/l	5	8240	bs	04/17/93
Dibromochloromethane	ND	ug/l	5	8240	bs	04/17/93
1,2-Dichlorobenzene	ND	ug/l	5	8240	bs	04/17/93
1,3-Dichlorobenzene	ND	ug/l	5	8240	bs	04/17/93
1,4-Dichlorobenzene	ND	ug/l	5	8240	bs	04/17/93
1,1-Dichloroethane	ND	ug/l	5	8240	bs	04/17/93
1,2-Dichloroethane	ND	ug/l	5	8240	bs	04/17/93
1,1-Dichloroethene	ND	ug/l	5	8240	bs	04/17/93
cis-1,2-Dichloroethene	ND	ug/l	5	8240	bs	04/17/93
trans-1,2-Dichloroethene	ND	ug/l	5	8240	bs	04/17/93
1,2-Dichloropropane	ND	ug/l	5	8240	bs	04/17/93
cis-1,3-Dichloropropene	ND	ug/l	5	8240	bs	04/17/93
trans-1,3-Dichloropropene	ND	ug/l	5	8240	bs	04/17/93
Ethylbenzene	ND	ug/l	5	8240	bs	04/17/93
Methylene Chloride	ND	ug/l	5	8240	bs	04/17/93
Methyl Ethyl Ketone	ND	ug/l	100	8240	bs	04/17/93



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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-008
Client Id: GMLH-9-4893-281
Matrix: Water

Date Sampled: 04/08/93 12:03
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<u>VOLATILE ORGANICS</u>						
MIBK	ND	ug/l	50	8240	bs	04/17/93
MTBE	ND	ug/l	5	8240	bs	04/17/93
1,1,2,2-Tetrachloroethane	ND	ug/l	5	8240	bs	04/17/93
Tetrachloroethene	ND	ug/l	5	8240	bs	04/17/93
Toluene	ND	ug/l	5	8240	bs	04/17/93
1,1,1-Trichloroethane	ND	ug/l	5	8240	bs	04/17/93
1,1,2-Trichloroethane	ND	ug/l	5	8240	bs	04/17/93
Trichloroethene	ND	ug/l	5	8240	bs	04/17/93
Trichlorofluoromethane	ND	ug/l	5	8240	bs	04/17/93
Vinyl Chloride	ND	ug/l	5	8240	bs	04/17/93
Xylene	ND	ug/l	5	8240	bs	04/17/93
<u>Surrogate Studies - Volatiles</u>						
Bromofluorobenzene	92	Percent			bs	04/17/93
1,2-Dichloroethane-D	101	Percent			bs	04/17/93
Toluene-D	95	Percent			bs	04/17/93
<u>ACID EXTRACTABLES</u>						
Benzoic Acid	ND	ug/l	50	625	ss	04/13/93
4-Chloro-3-Methylphenol	ND	ug/l	20	8270	ss	04/13/93
2-Chlorophenol	ND	ug/l	10	8270	ss	04/13/93
2,4-Dichlorophenol	ND	ug/l	10	8270	ss	04/13/93
2,6-Dichlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4-Dimethylphenol	ND	ug/l	10	8270	ss	04/13/93
4,6-Dinitro-2-Methylphenol	ND	ug/l	50	8270	ss	04/13/93



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Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-008
Client Id: GMLH-9-4893-281
Matrix: Water

Date Sampled: 04/08/93 12:03
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
ACID EXTRACTABLES						
2,4-Dinitrophenol	ND	ug/l	50	8270	ss	04/13/93
2-Methylphenol	ND	ug/l	10	625	ss	04/13/93
4-Methylphenol	ND	ug/l	10	625	ss	04/13/93
2-Nitrophenol	ND	ug/l	10	8270	ss	04/13/93
4-Nitrophenol	ND	ug/l	50	8270	ss	04/13/93
Pentachlorophenol	ND	ug/l	50	8270	ss	04/13/93
Phenol	ND	ug/l	10	8270	ss	04/13/93
2,3,4,6-Tetrachlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4,5-Trichlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4,6-Trichlorophenol	ND	ug/l	10	8270	ss	04/13/93
Extraction Date:	04/12/93				rw	04/13/93
Surrogate Studies - Acid Extractables						
2-Fluorophenol	89	Percent			ss	04/13/93
Phenol-D6	78	Percent			ss	04/13/93
2,4,6-Tribromophenol	80	Percent			ss	04/13/93
Petroleum Hydrocarbon Analysis						
Total Petroleum Hydrocarbon (IR)	0.3	mg/l	0.1	418.1	ja	04/19/93



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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-009
Client Id: GMLH-10-4893-281
Matrix: Water

Date Sampled: 04/08/93 10:30
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Acetone	ND	ug/l	100	8240	bs	04/19/93
Benzene	ND	ug/l	1	8240	bs	04/19/93
Bromodichloromethane	ND	ug/l	5	8240	bs	04/19/93
Bromoform	ND	ug/l	5	8240	bs	04/19/93
Bromomethane	ND	ug/l	5	8240	bs	04/19/93
Carbon Tetrachloride	ND	ug/l	5	8240	bs	04/19/93
Chlorobenzene	ND	ug/l	5	8240	bs	04/19/93
Chloroethane	ND	ug/l	5	8240	bs	04/19/93
Chloroform	ND	ug/l	5	8240	bs	04/19/93
Chloromethane	ND	ug/l	5	8240	bs	04/19/93
Dibromochloromethane	ND	ug/l	5	8240	bs	04/19/93
1,2-Dichlorobenzene	ND	ug/l	5	8240	bs	04/19/93
1,3-Dichlorobenzene	ND	ug/l	5	8240	bs	04/19/93
1,4-Dichlorobenzene	ND	ug/l	5	8240	bs	04/19/93
1,1-Dichloroethane	ND	ug/l	5	8240	bs	04/19/93
1,2-Dichloroethane	ND	ug/l	5	8240	bs	04/19/93
1,1-Dichloroethene	ND	ug/l	5	8240	bs	04/19/93
cis-1,2-Dichloroethene	ND	ug/l	5	8240	bs	04/19/93
trans-1,2-Dichloroethene	ND	ug/l	5	8240	bs	04/19/93
1,2-Dichloropropane	ND	ug/l	5	8240	bs	04/19/93
cis-1,3-Dichloropropene	ND	ug/l	5	8240	bs	04/19/93
trans-1,3-Dichloropropene	ND	ug/l	5	8240	bs	04/19/93
Ethylbenzene	ND	ug/l	5	8240	bs	04/19/93
Methylene Chloride	ND	ug/l	5	8240	bs	04/19/93
Methyl Ethyl Ketone	ND	ug/l	100	8240	bs	04/19/93



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Account: TRI-S Environmental Consulting
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Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-009
Client Id: GMLH-10-4893-281
Matrix: Water

Date Sampled: 04/08/93 10:30
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<u>VOLATILE ORGANICS</u>						
MIBK	ND	ug/l	50	8240	bs	04/19/93
MTBE	ND	ug/l	5	8240	bs	04/19/93
1,1,2,2-Tetrachloroethane	ND	ug/l	5	8240	bs	04/19/93
Tetrachloroethene	ND	ug/l	5	8240	bs	04/19/93
Toluene	ND	ug/l	5	8240	bs	04/19/93
1,1,1-Trichloroethane	ND	ug/l	5	8240	bs	04/19/93
1,1,2-Trichloroethane	ND	ug/l	5	8240	bs	04/19/93
Trichloroethene	ND	ug/l	5	8240	bs	04/19/93
Trichlorofluoromethane	ND	ug/l	5	8240	bs	04/19/93
Vinyl Chloride	ND	ug/l	5	8240	bs	04/19/93
Xylene	ND	ug/l	5	8240	bs	04/19/93
<u>Surrogate Studies - Volatiles</u>						
Bromofluorobenzene	102	Percent			bs	04/19/93
1,2-Dichloroethane-D	98	Percent			bs	04/19/93
Toluene-D	100	Percent			bs	04/19/93
<u>ACID EXTRACTABLES</u>						
Benzoic Acid	ND	ug/l	50	625	ss	04/13/93
4-Chloro-3-Methylphenol	ND	ug/l	20	8270	ss	04/13/93
2-Chlorophenol	ND	ug/l	10	8270	ss	04/13/93
2,4-Dichlorophenol	ND	ug/l	10	8270	ss	04/13/93
2,6-Dichlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4-Dimethylphenol	ND	ug/l	10	8270	ss	04/13/93
4,6-Dinitro-2-Methylphenol	ND	ug/l	50	8270	ss	04/13/93



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FINAL REPORT

Client Information

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Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name: TRI-S Environmental

Sample Information

Lab ID: 30992076-009
Client Id: GMLH-10-4893-281
Matrix: Water

Date Sampled: 04/08/93 10:30
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
ACID EXTRACTABLES						
2,4-Dinitrophenol	ND	ug/l	50	8270	ss	04/13/93
2-Methylphenol	ND	ug/l	10	625	ss	04/13/93
4-Methylphenol	ND	ug/l	10	625	ss	04/13/93
2-Nitrophenol	ND	ug/l	10	8270	ss	04/13/93
4-Nitrophenol	ND	ug/l	50	8270	ss	04/13/93
Pentachlorophenol	ND	ug/l	50	8270	ss	04/13/93
Phenol	ND	ug/l	10	625	ss	04/13/93
2,3,4,6-Tetrachlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4,5-Trichlorophenol	ND	ug/l	10	625	ss	04/13/93
2,4,6-Trichlorophenol	ND	ug/l	10	8270	ss	04/13/93
Extraction Date:	04/12/93				rw	04/13/93
Surrogate Studies - Acid Extractables						
2-Fluorophenol	78	Percent			ss	04/13/93
Phenol-D6	68	Percent			ss	04/13/93
2,4,6-Tribromophenol	62	Percent			ss	04/13/93
Petroleum Hydrocarbon Analysis						
Total Petroleum Hydrocarbon (IR)	ND	mg/l	0.1	418.1	ja	04/19/93



Matrix Analytical, Inc.
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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name:

Sample Information

Lab ID: 30992076-010
Client Id: QC-Report
Matrix: Water
Comment: Water

Date Sampled: 04/08/93 :
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
----------------------	--------	------	-----------------	------------	---------	---------------

METHOD BLANK - VOLATILES

Method Blank

ND

ug/l

8240

METHOD BLANK - SEMIVOLATILES

Method Blank

ND

ug/l

625

METHOD SUMMARIES

Acid/Base Neutral analysis is performed using H/P 5970 GC/MS systems with autosampler. Analysis is performed with J&W megabore column. Tuning is based on DFPP criteria. Procedural guidelines described in SW846 are used for all analysis. Data reduction is accomplished using H/P RTE 1000 computer systems.

Total petroleum hydrocarbons are performed by Fourier Transform Infrared Spectroscopy (FTIR) using BioRad FTS-7 system. Samples are extracted in freon and subsequently treated with silica gel (to remove vegetable/animal fats) before measurement. 10 and 100 mm sample cells are routinely used to provide necessary detection limits.



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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH/Chester/PhaseII (281)(4-9-93)
Project Number: 281
Project Manager:
Sampler Name:

Sample Information

Lab ID: 30992076-010
Client Id: QC-Report
Matrix: Water
Comment: Water

Date Sampled: 04/08/93 :
Date Received: 04/09/93 : 0
Date Reported: 04/22/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
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METHOD SUMMARIES

Volatile organic analysis is performed using H/P 5995 or 5970 GC/MS, Tekmar purge and trap, and ALS autosampler. Chromatography incorporates packed and megabore columns. Data reduction is performed on RTE 1000 and ChemStation systems. Tuning is based on BFB standards. Procedural guidelines follow EPA 624 or SW846 for all analyses. Aromatic volatiles listed in VOA 8020 are analyzed using GC/MS systems.

METHOD REFERENCES

1. Test Methods For Evaluating Solid Waste: Physical Chemical Methods. EPA SW 846. November 1986.
2. Methods For Chemical Analysis of Water and Wastes. EPA 600/4-79-200. Revised March 1983.
3. Standard Methods For Examination of Water and Wastewater. APHA-AWWA-WACF, 16th Edition. 1985.

CHAIN-OF-CUSTODY RECORD

CLIENT: TRI-S Environmental Consulting
ADDRESS: PO Box 1760
Brattleboro VT 05302

CLIENT CONTACT PHONE: (802) 254-3677
PROJECT NAME: GMLH/Closter/Phase II NO: 281

LAB CONTACT: Michelle Higgins EXT. NO: 302
LAB ID: (LAB USE ONLY)

ANALYSES REQUESTED

TPH
8240
8270 acid extract
Appendix 9 only

COMMENTS

TOTALS

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SAMPLE ID / CLIENT DESCRIPTION	TYPE	COLLECTION DATE / TIME	IMPORTANT - INDICATE THE NUMBER OF BOTTLES PER SAMPLE IN THE SPACES BELOW									
GMLH-1-4893-281	GD	4/8/93	11:38	1	2	1						
GMLH-2 "	"		11:56	1	2	1						
GMLH-3 "	"		11:47	1	2	1						
GMLH-4 "	"		11:26	1	2	1						
GMLH-5 "	"		13:48	1	2	1						
GMLH-6 "	"		13:54	1	2	1						
GMLH-7 "	"		No sample									
GMLH-8 "	"		11:28	1	2	1						
GMLH-9 "	"		12:03	1	2	1						
GMLH-10 "	"		10:30	1	2	1						
TOTALS:			9	18	9							36

*TYPE: W = water; GW = groundwater; DW = drinking water; SW = surface water; S = soil; SED = sediment; SL = sludge; DS = drain sample; O = oil; M = mpo; X = other (please describe)

SPECIAL PRICE QUOTE FOR THIS PROJECT
SPECIAL INSTRUCTIONS / NOTES:

NO YES NUMBER

MATRIX ANALYTICAL USE ONLY

SAMPLE: 1) were shipped / hand-delivered / ambient / chilled
2) were received preserved / unpreserved
3) were received intact / broken / leaking
4) were received within / past holding times
5) signed with COC form / discrepancies were present
6) were sealed / not sealed with COC tape; tape was broken / intact
7) were in cooler sealed / not sealed with COC tape; tape was broken / intact

REUNQUISHED BY

RECEIVED BY

DATE TIME

COMMENTS

SAMPLER'S INITIALS

MATRIX ANALYTICAL, INC.

KHJ PDGM

Hopkinton, MA 017
(800) 344-3099 2076-001

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ANALYTICAL DATA
SUMMARY



Report Date: 04/07/93

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302
802-254-3677

Project Manager:
Project Name: GMLH (281) (3-26-93)
Project No.: 281

Sample Information:

Laboratory ID. Client ID.

30851835-001 NE

30851835-002 NW

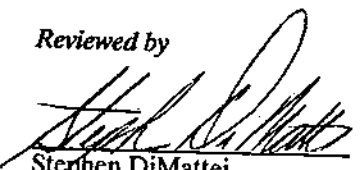
30851835-003 SE

Laboratory ID. Client ID.

30851835-004 SW

30851835-005 QC-Report

Reviewed by


Stephen DiMattei
Quality Assurance Officer

Lab Certifications

EPA ID: No. MA059

Massachusetts: No. 313

Maine: Reciprocity

New York: ELAP No. 11116

Connecticut: No. PH 0515

Florida: QA Plan No. 900437G

New Hampshire: No. 24190-A,B

Rhode Island: Reciprocity



Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748
1 800 3-MATRIX

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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH (281) (3-26-93)
Project Number: 281
Project Manager:
Sampler Name: Tri-S Environmental Cons.

Sample Information

Lab ID: 30851835-001
Client Id: NE
Matrix: Soil

Date Sampled: 03/24/93 14:00
Date Received: 03/26/93 : 0
Date Reported: 04/07/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Acetone	ND	ug/kg	100	8240	ck	04/02/93
Benzene	ND	ug/kg	1	8240	ck	04/02/93
Bromodichloromethane	ND	ug/kg	5	8240	ck	04/02/93
Bromoform	ND	ug/kg	5	8240	ck	04/02/93
Bromomethane	ND	ug/kg	5	8240	ck	04/02/93
Carbon Tetrachloride	ND	ug/kg	5	8240	ck	04/02/93
Chlorobenzene	ND	ug/kg	5	8240	ck	04/02/93
Chloroethane	ND	ug/kg	5	8240	ck	04/02/93
Chloroform	ND	ug/kg	5	8240	ck	04/02/93
Chloromethane	ND	ug/kg	5	8240	ck	04/02/93
Dibromochloromethane	ND	ug/kg	5	8240	ck	04/02/93
1,2-Dichlorobenzene	ND	ug/kg	5	8240	ck	04/02/93
1,3-Dichlorobenzene	ND	ug/kg	5	8240	ck	04/02/93
1,4-Dichlorobenzene	ND	ug/kg	5	8240	ck	04/02/93
1,1-Dichloroethane	ND	ug/kg	5	8240	ck	04/02/93
1,2-Dichloroethane	ND	ug/kg	5	8240	ck	04/02/93
1,1-Dichloroethene	ND	ug/kg	5	8240	ck	04/02/93
cis-1,2-Dichloroethene	ND	ug/kg	5	8240	ck	04/02/93
trans-1,2-Dichloroethene	ND	ug/kg	5	8240	ck	04/02/93
1,2-Dichloropropane	ND	ug/kg	5	8240	ck	04/02/93
cis-1,3-Dichloropropene	ND	ug/kg	5	8240	ck	04/02/93
trans-1,3-Dichloropropene	ND	ug/kg	5	8240	ck	04/02/93
Ethylbenzene	ND	ug/kg	5	8240	ck	04/02/93
Methylene Chloride	ND	ug/kg	5	8240	ck	04/02/93
Methyl Ethyl Ketone	ND	ug/kg	100	8240	ck	04/02/93



Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748
1 800 3-MATRIX

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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH (281) (3-26-93)
Project Number: 281
Project Manager:
Sampler Name: Tri-S Environmental Cons.

Sample Information

Lab ID: 30851835-001
Client Id: NE
Matrix: Soil

Date Sampled: 03/24/93 14:00
Date Received: 03/26/93 :0
Date Reported: 04/07/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<u>VOLATILE ORGANICS</u>						
MIBK	ND	ug/kg	50	8240	ck	04/02/93
MTBE	ND	ug/kg	5	8240	ck	04/02/93
1,1,2,2-Tetrachloroethane	ND	ug/kg	5	8240	ck	04/02/93
Tetrachloroethene	ND	ug/kg	5	8240	ck	04/02/93
Toluene	ND	ug/kg	5	8240	ck	04/02/93
1,1,1-Trichloroethane	ND	ug/kg	5	8240	ck	04/02/93
1,1,2-Trichloroethane	ND	ug/kg	5	8240	ck	04/02/93
Trichloroethene	ND	ug/kg	5	8240	ck	04/02/93
Trichlorofluoromethane	ND	ug/kg	5	8240	ck	04/02/93
Vinyl Chloride	ND	ug/kg	5	8240	ck	04/02/93
Xylene	ND	ug/kg	5	8240	ck	04/02/93
<u>HYDROCARBON ANALYSIS</u>						
Total Petroleum Hydrocarbon (IR)	760	mg/kg	20	9073	ja	03/29/93
<u>ACID EXTRACTABLES</u>						
Benzoic Acid	ND	ug/kg	2500	8270	ss	03/29/93
4-Chloro-3-Methylphenol	ND	ug/kg	1000	8270	ss	03/29/93
2-Chlorophenol	ND	ug/kg	500	8270	ss	03/29/93
2,4-Dichlorophenol	ND	ug/kg	500	8270	ss	03/29/93
2,6-Dichlorophenol	ND	ug/kg	500	8270	ss	03/29/93
2,4-Dimethylphenol	ND	ug/kg	500	8270	ss	03/29/93
4,6-Dinitro-2-Methylphenol	ND	ug/kg	2500	8270	ss	03/29/93
2,4-Dinitrophenol	ND	ug/kg	2500	8270	ss	03/29/93
2-Methylphenol	ND	ug/kg	500	8270	ss	03/29/93



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F I N A L R E P O R T

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH (281) (3-26-93)
Project Number: 281
Project Manager:
Sampler Name: Tri-S Environmental Cons.

Sample Information

Lab ID: 30851835-001
Client ID: NE
Matrix: Soil

Date Sampled: 03/24/93 14:00
Date Received: 03/26/93 : 0
Date Reported: 04/07/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
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ACID EXTRACTABLES

4-Methylphenol	ND	ug/kg	500	8270	ss	03/29/93
2-Nitrophenol	ND	ug/kg	500	8270	ss	03/29/93
4-Nitrophenol	ND	ug/kg	2500	8270	ss	03/29/93
Pentachlorophenol	ND	ug/kg	2500	8270	ss	03/29/93
Phenol	ND	ug/kg	500	8270	ss	03/29/93
2,3,4,6-Tetrachlorophenol	ND	ug/kg	500	8270	ss	03/29/93
2,4,5-Trichlorophenol	ND	ug/kg	500	8270	ss	03/29/93
2,4,6-Trichlorophenol	ND	ug/kg	500	8270	ss	03/29/93
Extraction Date:	03/29/93				rw	

SURROGATE STUDIES - VOLATILES

Bromofluorobenzene	100	Percent			ck	04/02/93
1,2-Dichloroethane-D	86	Percent			ck	04/02/93
Toluene-D	78	Percent			ck	04/02/93

SURROGATE STUDIES - ACID EXTRACTABLES

2-Fluorophenol	66	Percent			ss	03/29/93
Phenol-D6	59	Percent			ss	03/29/93
2,4,6-Tribromophenol	54	Percent			ss	03/29/93



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F I N A L R E P O R T

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH (281) (3-26-93)
Project Number: 281
Project Manager:
Sampler Name: Tri-S Environmental Cons.

Sample Information

Lab ID: 30851835-002
Client Id: NW
Matrix: Soil

Date Sampled: 03/24/93 14:00
Date Received: 03/26/93 : 0
Date Reported: 04/07/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Acetone	ND	ug/kg	500	8240	ck	04/02/93
Benzene	ND	ug/kg	5	8240	ck	04/02/93
Bromodichloromethane	ND	ug/kg	25	8240	ck	04/02/93
Bromoform	ND	ug/kg	25	8240	ck	04/02/93
Bromomethane	ND	ug/kg	25	8240	ck	04/02/93
Carbon Tetrachloride	ND	ug/kg	25	8240	ck	04/02/93
Chlorobenzene	ND	ug/kg	25	8240	ck	04/02/93
Chloroethane	ND	ug/kg	25	8240	ck	04/02/93
Chloroform	ND	ug/kg	25	8240	ck	04/02/93
Chloromethane	ND	ug/kg	25	8240	ck	04/02/93
Dibromochloromethane	ND	ug/kg	25	8240	ck	04/02/93
1,2-Dichlorobenzene	ND	ug/kg	25	8240	ck	04/02/93
1,3-Dichlorobenzene	ND	ug/kg	25	8240	ck	04/02/93
1,4-Dichlorobenzene	ND	ug/kg	25	8240	ck	04/02/93
1,1-Dichloroethane	ND	ug/kg	25	8240	ck	04/02/93
1,2-Dichloroethane	ND	ug/kg	25	8240	ck	04/02/93
1,1-Dichloroethene	ND	ug/kg	25	8240	ck	04/02/93
cis-1,2-Dichloroethene	ND	ug/kg	25	8240	ck	04/02/93
trans-1,2-Dichloroethene	ND	ug/kg	25	8240	ck	04/02/93
1,2-Dichloropropane	ND	ug/kg	25	8240	ck	04/02/93
cis-1,3-Dichloropropene	ND	ug/kg	25	8240	ck	04/02/93
trans-1,3-Dichloropropene	ND	ug/kg	25	8240	ck	04/02/93
Ethylbenzene	ND	ug/kg	25	8240	ck	04/02/93
Methylene Chloride	ND	ug/kg	25	8240	ck	04/02/93
Methyl Ethyl Ketone	ND	ug/kg	500	8240	ck	04/02/93



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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH (281) (3-26-93)
Project Number: 281
Project Manager:
Sampler Name: Tri-S Environmental Cons.

Sample Information

Lab ID: 30851835-002
Client Id: NW
Matrix: Soil

Date Sampled: 03/24/93 14:00
Date Received: 03/26/93 : 0
Date Reported: 04/07/93

Analytical Parameter	Result	Unit	Detection Limit	Method No	Analyst	Date Analyzed
<u>VOLATILE ORGANICS</u>						
MIBK	ND	ug/kg	250	8240	ck	04/02/93
MTBE	ND	ug/kg	25	8240	ck	04/02/93
1,1,2,2-Tetrachloroethane	ND	ug/kg	25	8240	ck	04/02/93
Tetrachloroethene	ND	ug/kg	25	8240	ck	04/02/93
Toluene	ND	ug/kg	25	8240	ck	04/02/93
1,1,1-Trichloroethane	ND	ug/kg	25	8240	ck	04/02/93
1,1,2-Trichloroethane	ND	ug/kg	25	8240	ck	04/02/93
Trichloroethene	ND	ug/kg	25	8240	ck	04/02/93
Trichlorofluoromethane	ND	ug/kg	25	8240	ck	04/02/93
Vinyl Chloride	ND	ug/kg	25	8240	ck	04/02/93
Xylene	ND	ug/kg	25	8240	ck	04/02/93
<u>HYDROCARBON ANALYSIS</u>						
Total Petroleum Hydrocarbon (IR)	5,500	mg/kg	20	9073	ja	03/29/93
<u>ACID EXTRACTABLES</u>						
Benzoic Acid	ND	ug/kg	2500	8270	ss	03/29/93
4-Chloro-3-Methylphenol	ND	ug/kg	1000	8270	ss	03/29/93
2-Chlorophenol	ND	ug/kg	500	8270	ss	03/29/93
2,4-Dichlorophenol	ND	ug/kg	500	8270	ss	03/29/93
2,6-Dichlorophenol	ND	ug/kg	500	8270	ss	03/29/93
2,4-Dimethylphenol	ND	ug/kg	500	8270	ss	03/29/93
4,6-Dinitro-2-Methylphenol	ND	ug/kg	2500	8270	ss	03/29/93
2,4-Dinitrophenol	ND	ug/kg	2500	8270	ss	03/29/93
2-Methylphenol	ND	ug/kg	500	8270	ss	03/29/93



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F I N A L R E P O R T

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH (281) (3-26-93)
Project Number: 281
Project Manager:
Sampler Name: Tri-S Environmental Cons.

Sample Information

Lab ID: 30851835-002
Client Id: NW
Matrix: Soil

Date Sampled: 03/24/93 14:00
Date Received: 03/26/93 : 0
Date Reported: 04/07/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
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ACID EXTRACTABLES

4-Methylphenol	ND	ug/kg	500	8270	ss	03/29/93
2-Nitrophenol	ND	ug/kg	500	8270	ss	03/29/93
4-Nitrophenol	ND	ug/kg	2500	8270	ss	03/29/93
Pentachlorophenol	ND	ug/kg	2500	8270	ss	03/29/93
Phenol	ND	ug/kg	500	8270	ss	03/29/93
2,3,4,6-Tetrachlorophenol	ND	ug/kg	500	8270	ss	03/29/93
2,4,5-Trichlorophenol	ND	ug/kg	500	8270	ss	03/29/93
2,4,6-Trichlorophenol	ND	ug/kg	500	8270	ss	03/29/93
Extraction Date:	03/29/93				rw	

SURROGATE STUDIES - VOLATILES

Bromofluorobenzene	81	Percent			ck	04/02/93
1,2-Dichloroethane-D	86	Percent			ck	04/02/93
Toluene-D	81	Percent			ck	04/02/93

Detection limit due to a series of late eluting non-target peaks usually found in the presence of petroleum hydrocarbon type compounds.

SURROGATE STUDIES - ACID EXTRACTABLES

2-Fluorophenol	69	Percent			ss	03/29/93
Phenol-D6	61	Percent			ss	03/29/93
2,4,6-Tribromophenol	89	Percent			ss	03/29/93



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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH (281) (3-26-93)
Project Number: 281
Project Manager:
Sampler Name: Tri-S Environmental Cons.

Sample Information

Lab ID: 30851835-003
Client Id: SE
Matrix: Soil

Date Sampled: 03/24/93 14:00
Date Received: 03/26/93 : 0
Date Reported: 04/07/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Acetone	ND	ug/kg	500	8240	ck	04/02/93
Benzene	ND	ug/kg	5	8240	ck	04/02/93
Bromodichloromethane	ND	ug/kg	25	8240	ck	04/02/93
Bromoform	ND	ug/kg	25	8240	ck	04/02/93
Bromomethane	ND	ug/kg	25	8240	ck	04/02/93
Carbon Tetrachloride	ND	ug/kg	25	8240	ck	04/02/93
Chlorobenzene	ND	ug/kg	25	8240	ck	04/02/93
Chloroethane	ND	ug/kg	25	8240	ck	04/02/93
Chloroform	ND	ug/kg	25	8240	ck	04/02/93
Chloromethane	ND	ug/kg	25	8240	ck	04/02/93
Dibromochloromethane	ND	ug/kg	25	8240	ck	04/02/93
1,2-Dichlorobenzene	ND	ug/kg	25	8240	ck	04/02/93
1,3-Dichlorobenzene	ND	ug/kg	25	8240	ck	04/02/93
1,4-Dichlorobenzene	ND	ug/kg	25	8240	ck	04/02/93
1,1-Dichloroethane	ND	ug/kg	25	8240	ck	04/02/93
1,2-Dichloroethane	ND	ug/kg	25	8240	ck	04/02/93
1,1-Dichloroethene	ND	ug/kg	25	8240	ck	04/02/93
cis-1,2-Dichloroethene	ND	ug/kg	25	8240	ck	04/02/93
trans-1,2-Dichloroethene	ND	ug/kg	25	8240	ck	04/02/93
1,2-Dichloropropane	ND	ug/kg	25	8240	ck	04/02/93
cis-1,3-Dichloropropene	ND	ug/kg	25	8240	ck	04/02/93
trans-1,3-Dichloropropene	ND	ug/kg	25	8240	ck	04/02/93
Ethylbenzene	ND	ug/kg	25	8240	ck	04/02/93
Methylene Chloride	ND	ug/kg	25	8240	ck	04/02/93
Methyl Ethyl Ketone	ND	ug/kg	500	8240	ck	04/02/93



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Project Name: GMLH (281) (3-26-93)
Project Number: 281
Project Manager:
Sampler Name: Tri-S Environmental Cons.

Sample Information

Lab ID: 30851835-003
Client Id: SE
Matrix: Soil

Date Sampled: 03/24/93 14:00
Date Received: 03/26/93 :0
Date Reported: 04/07/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
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VOLATILE ORGANICS

MIBK	ND	ug/kg	250	8240	ck	04/02/93
MTBE	ND	ug/kg	25	8240	ck	04/02/93
1,1,2,2-Tetrachloroethane	ND	ug/kg	25	8240	ck	04/02/93
Tetrachloroethene	ND	ug/kg	25	8240	ck	04/02/93
Toluene	ND	ug/kg	25	8240	ck	04/02/93
1,1,1-Trichloroethane	ND	ug/kg	25	8240	ck	04/02/93
1,1,2-Trichloroethane	ND	ug/kg	25	8240	ck	04/02/93
Trichloroethene	ND	ug/kg	25	8240	ck	04/02/93
Trichlorofluoromethane	ND	ug/kg	25	8240	ck	04/02/93
Vinyl Chloride	ND	ug/kg	25	8240	ck	04/02/93
Xylene	1,100	ug/kg	25	8240	ck	04/02/93

HYDROCARBON ANALYSIS

Total Petroleum Hydrocarbon (IR)	46,000	mg/kg	200	9073	ja	03/29/93
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ACID EXTRACTABLES

Benzoic Acid	ND	ug/kg	50000	8270	ss	04/01/93
4-Chloro-3-Methylphenol	ND	ug/kg	20000	8270	ss	04/01/93
2-Chlorophenol	ND	ug/kg	10000	8270	ss	04/01/93
2,4-Dichlorophenol	ND	ug/kg	10000	8270	ss	04/01/93
2,6-Dichlorophenol	ND	ug/kg	10000	8270	ss	04/01/93
2,4-Dimethylphenol	ND	ug/kg	10000	8270	ss	04/01/93
4,6-Dinitro-2-Methylphenol	ND	ug/kg	50000	8270	ss	04/01/93
2,4-Dinitrophenol	ND	ug/kg	50000	8270	ss	04/01/93
2-Methylphenol	ND	ug/kg	10000	8270	ss	04/01/93



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Project Number: 281
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Sampler Name: Tri-S Environmental Cons.

Sample Information

Lab ID: 30851835-003
Client Id: SE
Matrix: Soil

Date Sampled: 03/24/93 14:00
Date Received: 03/26/93 : 0
Date Reported: 04/07/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
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ACID EXTRACTABLES

4-Methylphenol	ND	ug/kg	10000	8270	ss	04/01/93
2-Nitrophenol	ND	ug/kg	10000	8270	ss	04/01/93
4-Nitrophenol	ND	ug/kg	50000	8270	ss	04/01/93
Pentachlorophenol	ND	ug/kg	50000	8270	ss	04/01/93
Phenol	ND	ug/kg	10000	8270	ss	04/01/93
2,3,4,6-Tetrachlorophenol	ND	ug/kg	10000	8270	ss	04/01/93
2,4,5-Trichlorophenol	ND	ug/kg	10000	8270	ss	04/01/93
2,4,6-Trichlorophenol	ND	ug/kg	10000	8270	ss	04/01/93
Extraction Date:	03/29/93				rw	

SURROGATE STUDIES - VOLATILES

Bromofluorobenzene	76	Percent		ck	04/02/93
1,2-Dichloroethane-D	92	Percent		ck	04/02/93
Toluene-D	80	Percent		ck	04/02/93

Detection limit due to a series of late eluting non-target peaks usually found in the presence of petroleum hydrocarbon type compounds.

SURROGATE STUDIES - ACID EXTRACTABLES

2-Fluorophenol	36	Percent		ss	04/01/93
Phenol-D6	32	Percent		ss	04/01/93
2,4,6-Tribromophenol	47	Percent		ss	04/01/93



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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH (281) (3-26-93)
Project Number: 281
Project Manager:
Sampler Name: Tri-S Environmental Cons.

Sample Information

Lab ID: 30851835-004
Client Id: SW
Matrix: Soil

Date Sampled: 03/24/93 14:00
Date Received: 03/26/93 :0
Date Reported: 04/07/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Acetone	ND	ug/kg	2000	8240	ck	04/02/93
Benzene	ND	ug/kg	20	8240	ck	04/02/93
Bromodichloromethane	ND	ug/kg	100	8240	ck	04/02/93
Bromoform	ND	ug/kg	100	8240	ck	04/02/93
Bromomethane	ND	ug/kg	100	8240	ck	04/02/93
Carbon Tetrachloride	ND	ug/kg	100	8240	ck	04/02/93
Chlorobenzene	ND	ug/kg	100	8240	ck	04/02/93
Chloroethane	ND	ug/kg	100	8240	ck	04/02/93
Chloroform	ND	ug/kg	100	8240	ck	04/02/93
Chloromethane	ND	ug/kg	100	8240	ck	04/02/93
Dibromochloromethane	ND	ug/kg	100	8240	ck	04/02/93
1,2-Dichlorobenzene	ND	ug/kg	100	8240	ck	04/02/93
1,3-Dichlorobenzene	ND	ug/kg	100	8240	ck	04/02/93
1,4-Dichlorobenzene	ND	ug/kg	100	8240	ck	04/02/93
1,1-Dichloroethane	ND	ug/kg	100	8240	ck	04/02/93
1,2-Dichloroethane	ND	ug/kg	100	8240	ck	04/02/93
1,1-Dichloroethene	ND	ug/kg	100	8240	ck	04/02/93
cis-1,2-Dichloroethene	ND	ug/kg	100	8240	ck	04/02/93
trans-1,2-Dichloroethene	ND	ug/kg	100	8240	ck	04/02/93
1,2-Dichloropropane	ND	ug/kg	100	8240	ck	04/02/93
cis-1,3-Dichloropropene	ND	ug/kg	100	8240	ck	04/02/93
trans-1,3-Dichloropropene	ND	ug/kg	100	8240	ck	04/02/93
Ethylbenzene	480	ug/kg	100	8240	ck	04/02/93
Methylene Chloride	ND	ug/kg	100	8240	ck	04/02/93
Methyl Ethyl Ketone	ND	ug/kg	2000	8240	ck	04/02/93



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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH (281) (3-26-93)
Project Number: 281
Project Manager:
Sampler Name: Tri-S Environmental Cons.

Sample Information

Lab ID: 30851835-004
Client Id: SW
Matrix: Soil

Date Sampled: 03/24/93 14:00
Date Received: 03/26/93 :0
Date Reported: 04/07/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
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ACID EXTRACTABLES

4-Methylphenol	ND	ug/kg	10000	8270	ss	04/01/93
2-Nitrophenol	ND	ug/kg	10000	8270	ss	04/01/93
4-Nitrophenol	ND	ug/kg	50000	8270	ss	04/01/93
Pentachlorophenol	ND	ug/kg	50000	8270	ss	04/01/93
Phenol	ND	ug/kg	10000	8270	ss	04/01/93
2,3,4,6-Tetrachlorophenol	ND	ug/kg	10000	8270	ss	04/01/93
2,4,5-Trichlorophenol	ND	ug/kg	10000	8270	ss	04/01/93
2,4,6-Trichlorophenol	ND	ug/kg	10000	8270	ss	04/01/93
Extraction Date:	03/29/93				rw	

SURROGATE STUDIES - VOLATILES

Bromofluorobenzene	90	Percent			ck	04/02/93
1,2-Dichloroethane-D	105	Percent			ck	04/02/93
Toluene-D	88	Percent			ck	04/02/93

SURROGATE STUDIES - ACID EXTRACTABLES

2-Fluorophenol	50	Percent			ss	04/01/93
Phenol-D6	48	Percent			ss	04/01/93
2,4,6-Tribromophenol	63	Percent			ss	04/01/93



RECEIVED APR 09 1993

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748
1 800 3-MATRIX

FINAL REPORT**Client Information**

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: GMLH (281) (3-26-93)
Project Number: 281
Project Manager:
Sampler Name:

Sample Information

Lab ID: 30851835-005
Client Id: QC-Report
Matrix: Soil
Comment: Soil

Date Sampled: 03/24/93 :
Date Received: 03/26/93 : 0
Date Reported: 04/07/93

Analytical Parameter	Result	Unit	Detection Limit	Method No	Analyst	Date Analyzed
<u>METHOD BLANK - VOLATILES</u>						
Method Blank	ND	ug/l		8240		
<u>METHOD BLANK - SEMIVOLATILES</u>						
Method Blank	ND	ug/l		8270		
<u>MATRIX SPIKE STUDIES - VOLATILES</u>						
Benzene	97	Percent				
Chlorobenzene	91	Percent				
1,1-Dichloroethene	82	Percent				
Toluene	94	Percent				
Trichloroethene	101	Percent		8240		

METHOD SUMMARIES

Acid/Base Neutral analysis is performed using H/P 5970 GC/MS systems with autosampler. Analysis is performed with J&W megabore column. Tuning is based on DFTPP criteria. Procedural guidelines described in SW846 are used for all analysis. Data reduction is accomplished using H/P RTE 1000 computer systems.

Total petroleum hydrocarbons are performed by Fourier Transform Infrared Spectroscopy (FTIR) using BioRad FTS-7 system. Samples are extracted in freon and subsequently treated with silica gel (to remove vegetable/animal fats) before measurement. 10 and 100 mm sample cells are routinely used to provide necessary detection limits.



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Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
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METHOD SUMMARIES

Volatile organic analysis is performed using H/P 5995 or 5970 GC/MS, Tekmar purge and trap, and ALS autosampler. Chromatography incorporates packed and megabore columns. Data reduction is performed on RTE 1000 and ChemStation systems. Tuning is based on BFB standards. Procedural guidelines follow EPA 624 or SW846 for all analyses. Aromatic volatiles listed in VOA 8020 are analyzed using GC/MS systems.

METHOD REFERENCES

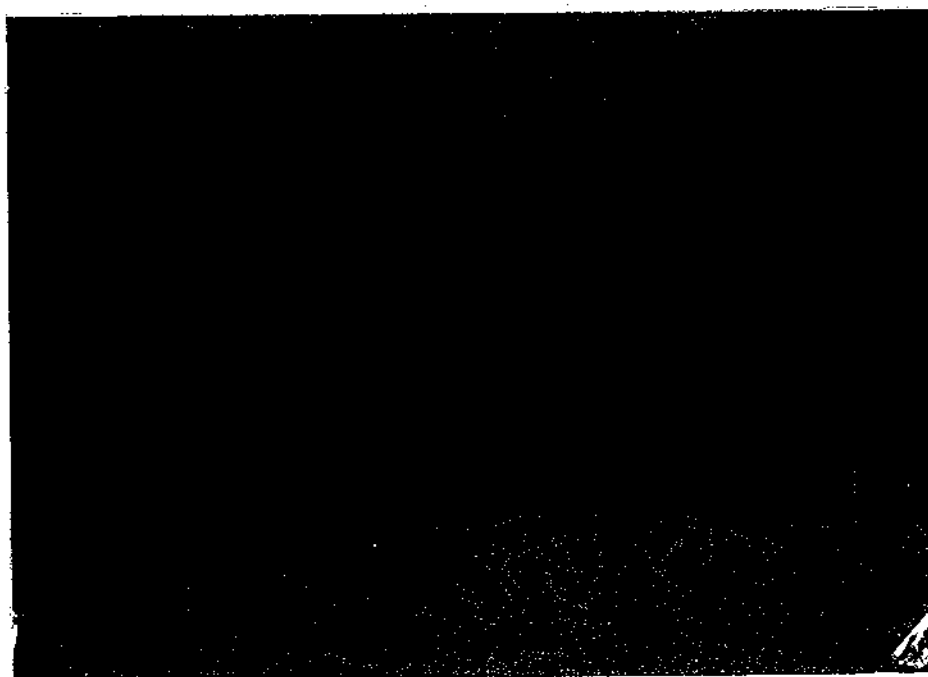
1. Test Methods For Evaluating Solid Waste: Physical Chemical Methods. EPA SW 846. November 1986.
2. Methods For Chemical Analysis of Water and Wastes. EPA 600/4-79-200. Revised March 1983.
3. Standard Methods For Examination of Water and Wastewater. APHA-AWWA-WACP., 16th Edition. 1985.

Appendix G

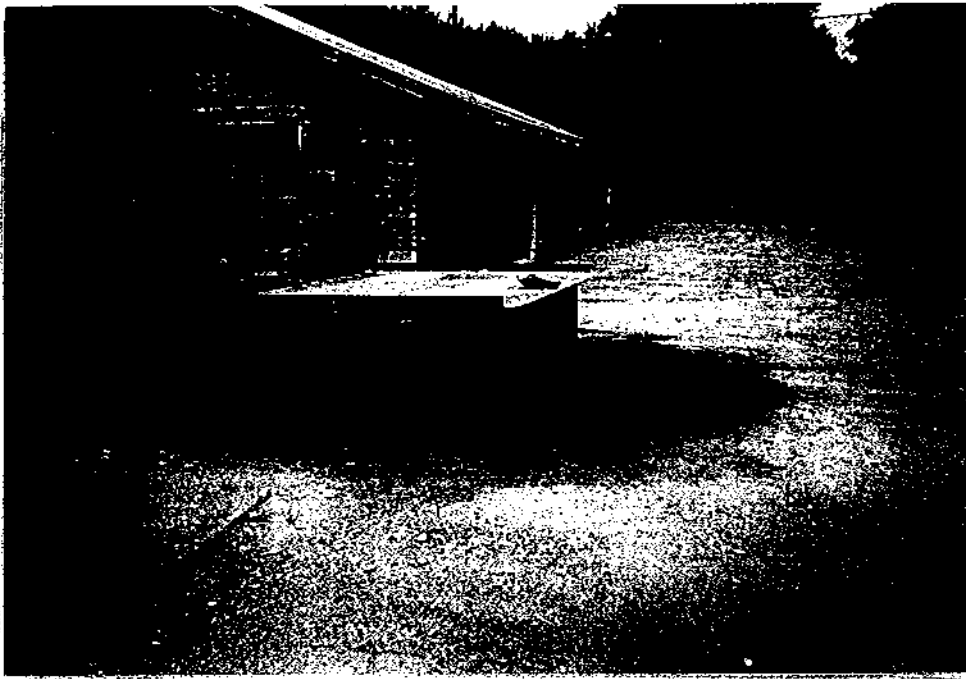
Photographs



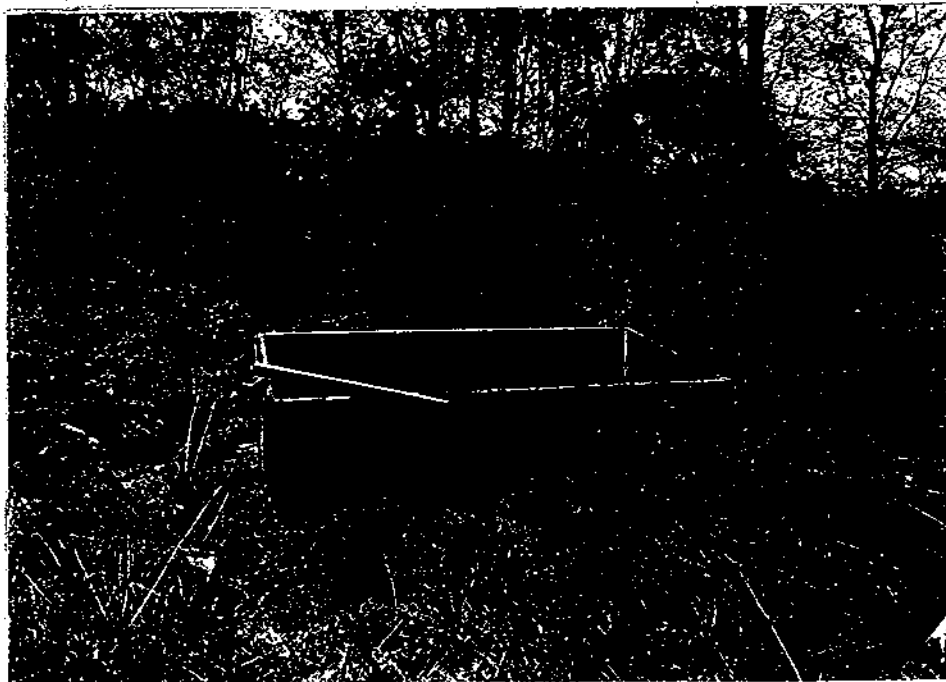
1. A view of the office, manufacturing, and wood shed buildings with a stream in the foreground.



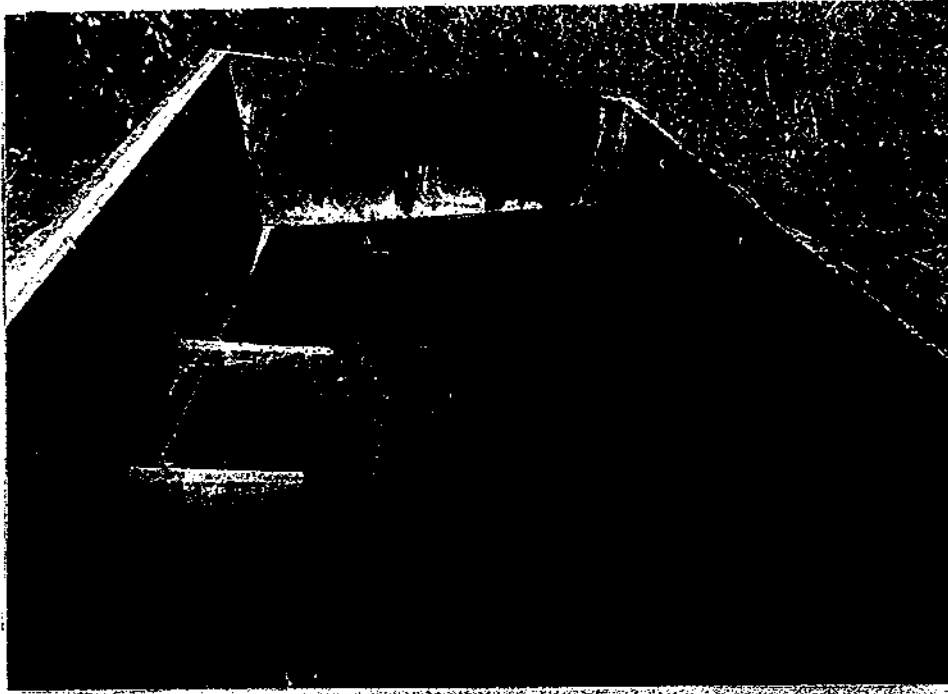
2. Installation of monitoring wells with soil stockpiles in foreground.



3. Former dip tank in front of the office building.



4. Former dip tank stored near wood chip disposal area.



5. Contents of the dip tank.



6. Wood chip disposal area.